

```
<?xml version="1.0" encoding="UTF-8"?>
<enderio:recipes xmlns:enderio="http://enderio.com/recipes" xmlns:xsi="http://www.w3.
org/2001/XMLSchema-instance" xsi:schemaLocation="http://enderio.com/recipes recipes.
xsd ">
```

```
<!--
```

These are the built-in recipes. You cannot change this file, it is a reference for you only and will be generated every time the game starts.

To make changes to the recipes, copy the recipes you want to change to a file in the 'user' folder. To disable a recipe, add an attribute "disabled" and set it to true, e.g.: <recipe name="Gear" disabled="true" />

You can also disable all built-in recipes with the setting "loadCoreRecipes" in the Ender IO config file, so that only your files in the 'user' folder will be loaded. Please be advised that a number of recipes are absolutely needed, so you will have to copy those over into a 'user' file for the game to load.

Item specifications can reference an alias, an ore dictionary name, a block or an item. You can force the type by prefixing the value with "oredict:", "block:" or "item:". Recipes that have items that cannot be found in-game are either skipped or an error, depending on their "required" attribute.

More information on the syntax can be found in the recipes.xsd file. An XML editor will display that as tooltips when editing this file.

```
-->
```

```
<!-- Iron -->
```

```
<recipe name="Sagmill: oreIron Ore" required="true">
```

```
  <sagmilling energy="3600">
```

```
    <input name="oreIron" />
```

```
    <output name="POWDER_IRON" amount="2" />
```

```
    <output name="dustTin" chance="0.05" required="false" />
```

```
    <output name="dustNickel" chance="0.1" required="false" />
```

```
    <output name="oredict:cobblestone" chance="0.15" />
```

```
  </sagmilling>
```

```
</recipe>
```

```
<recipe name="Sagmill: Nether Iron Ore" required="false">
```

```
  <sagmilling energy="3200">
```

```
    <input name="oreNetherIron" />
```

```
    <output name="POWDER_IRON" amount="4" />
```

```
    <output name="dustTin" amount="2" chance="0.05" required="false" />
```

```
    <output name="dustNickel" amount="2" chance="0.1" required="false" />
```

```
    <output name="minecraft:netherrack" chance="0.15" />
```

```
  </sagmilling>
```

```
</recipe>
```

```
<recipe name="Sagmill: Dense Iron Ore" required="false">
```

```
  <sagmilling energy="4800">
```

```
    <input name="denseoreIron" />
```

```
    <output name="oreIron" amount="4" />
```

```
  </sagmilling>
```

```
</recipe>
```

```
<recipe name="Sagmill: Iron Ingot" required="true">
```

```
  <sagmilling energy="2400" bonus="none">
```

```
    <input name="ingotIron" />
```

```
    <output name="POWDER_IRON" />
```

```
  </sagmilling>
```

```
</recipe>
```

```
<recipe name="Smelting: Iron Dust" required="true">
```

```
  <smelting>
```

```

    <input name="POWDER_IRON" />
    <output name="ingotIron" />
</smelting>
</recipe>

<recipe name="Sagmill: Iron Block" required="true">
  <sagmilling energy="3600" bonus="none">
    <input name="blockIron" />
    <output name="POWDER_IRON" amount="9" />
  </sagmilling>
</recipe>

<!-- Gold -->

<recipe name="Sagmill: oreGold Ore" required="true">
  <sagmilling energy="3600">
    <input name="oreGold" />
    <output name="dustGold" amount="2" />
    <output name="dustCopper" chance="0.2" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Gold Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherGold" />
    <output name="dustGold" amount="4" />
    <output name="dustCopper" amount="2" chance="0.2" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Gold Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreGold" />
    <output name="oreGold" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Gold Ingot" required="true">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotGold" />
    <output name="dustGold" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Gold Dust" required="true">
  <smelting>
    <input name="dustGold" />
    <output name="ingotGold" />
  </smelting>
</recipe>

<recipe name="Sagmill: Gold Block" required="true">
  <sagmilling energy="3600" bonus="none">
    <input name="blockGold" />
    <output name="dustGold" amount="9" />
  </sagmilling>
</recipe>

<!-- Copper -->

<recipe name="Sagmill: oreCopper Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreCopper" />
    <output name="dustCopper" amount="2" />
    <output name="dustGold" chance="0.125" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

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    </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Copper Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherCopper" />
    <output name="dustCopper" amount="4" />
    <output name="dustGold" amount="2" chance="0.125" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Copper Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreCopper" />
    <output name="oreCopper" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Copper Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotCopper" />
    <output name="dustCopper" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Copper Dust" required="false">
  <smelting>
    <input name="dustCopper" />
    <output name="ingotCopper" />
  </smelting>
</recipe>

<recipe name="Sagmill: Copper Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockCopper" />
    <output name="dustCopper" amount="9" />
  </sagmilling>
</recipe>

<!-- Tin -->

<recipe name="Sagmill: oreTin Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreTin" />
    <output name="dustTin" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Tin Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherTin" />
    <output name="dustTin" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Tin Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreTin" />
    <output name="oreTin" amount="4" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

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<recipe name="Sagmill: Tin Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotTin" />
    <output name="dustTin" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Tin Dust" required="false">
  <smelting>
    <input name="dustTin" />
    <output name="ingotTin" />
  </smelting>
</recipe>

<recipe name="Sagmill: Tin Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockTin" />
    <output name="dustTin" amount="9" />
  </sagmilling>
</recipe>

<!-- Lead -->

<recipe name="Sagmill: oreLead Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreLead" />
    <output name="dustLead" amount="2" />
    <output name="dustSilver" chance="0.1" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Lead Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherLead" />
    <output name="dustLead" amount="4" />
    <output name="dustSilver" amount="2" chance="0.1" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Lead Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreLead" />
    <output name="oreLead" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Lead Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotLead" />
    <output name="dustLead" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Lead Dust" required="false">
  <smelting>
    <input name="dustLead" />
    <output name="ingotLead" />
  </smelting>
</recipe>

<recipe name="Sagmill: Lead Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockLead" />
    <output name="dustLead" amount="9" />
  </sagmilling>
</recipe>

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<!-- Silver -->

<recipe name="Sagmill: oreSilver Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreSilver" />
    <output name="dustSilver" amount="2" />
    <output name="dustLead" chance="0.1" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Silver Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherSilver" />
    <output name="dustSilver" amount="4" />
    <output name="dustLead" amount="2" chance="0.1" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Silver Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreSilver" />
    <output name="oreSilver" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Silver Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotSilver" />
    <output name="dustSilver" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Silver Dust" required="false">
  <smelting>
    <input name="dustSilver" />
    <output name="ingotSilver" />
  </smelting>
</recipe>

<recipe name="Sagmill: Silver Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockSilver" />
    <output name="dustSilver" amount="9" />
  </sagmilling>
</recipe>

<!-- Nickel -->

<recipe name="Sagmill: oreNickel Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreNickel" />
    <output name="dustNickel" amount="2" />
    <output name="dustPlatinum" chance="0.1" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Nickel Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherNickel" />
    <output name="dustNickel" amount="4" />
    <output name="dustPlatinum" amount="2" chance="0.1" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

```

```
<recipe name="Sagmill: Dense Nickel Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreNickel" />
    <output name="oreNickel" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nickel Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotNickel" />
    <output name="dustNickel" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Nickel Dust" required="false">
  <smelting>
    <input name="dustNickel" />
    <output name="ingotNickel" />
  </smelting>
</recipe>

<recipe name="Sagmill: Nickel Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockNickel" />
    <output name="dustNickel" amount="9" />
  </sagmilling>
</recipe>

<!-- Aluminium -->

<recipe name="Sagmill: oreAluminium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreAluminium" />
    <output name="dustAluminium" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Aluminium Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherAluminium" />
    <output name="dustAluminium" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Aluminium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreAluminium" />
    <output name="oreAluminium" amount="4" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Aluminium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotAluminium" />
    <output name="dustAluminium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Aluminium Dust" required="false">
  <smelting>
    <input name="dustAluminium" />
    <output name="ingotAluminium" />
  </smelting>
</recipe>
```

```

    </smelting>
</recipe>

<recipe name="Sagmill: Aluminium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockAluminium" />
    <output name="dustAluminium" amount="9" />
  </sagmilling>
</recipe>

<!-- Aluminum -->

<recipe name="Sagmill: oreAluminum Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreAluminum" />
    <output name="dustAluminum" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Aluminum Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherAluminum" />
    <output name="dustAluminum" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Aluminum Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreAluminum" />
    <output name="oreAluminum" amount="4" />
    <output name="dustIron" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Aluminum Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotAluminum" />
    <output name="dustAluminum" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Aluminum Dust" required="false">
  <smelting>
    <input name="dustAluminum" />
    <output name="ingotAluminum" />
  </smelting>
</recipe>

<recipe name="Sagmill: Aluminum Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockAluminum" />
    <output name="dustAluminum" amount="9" />
  </sagmilling>
</recipe>

<!-- NaturalAluminum -->

<recipe name="Sagmill: oreNaturalAluminum Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreNaturalAluminum" />
    <output name="dustNaturalAluminum" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

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<recipe name="Sagmill: Nether NaturalAluminum Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherNaturalAluminum" />
    <output name="dustNaturalAluminum" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense NaturalAluminum Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreNaturalAluminum" />
    <output name="oreNaturalAluminum" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: NaturalAluminum Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotNaturalAluminum" />
    <output name="dustNaturalAluminum" />
  </sagmilling>
</recipe>

<recipe name="Smelting: NaturalAluminum Dust" required="false">
  <smelting>
    <input name="dustNaturalAluminum" />
    <output name="ingotNaturalAluminum" />
  </smelting>
</recipe>

<recipe name="Sagmill: NaturalAluminum Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockNaturalAluminum" />
    <output name="dustNaturalAluminum" amount="9" />
  </sagmilling>
</recipe>

<!-- Coal -->

<recipe name="Sagmill: oreCoal Ore" required="true">
  <sagmilling energy="3600">
    <input name="oreCoal" />
    <output name="minecraft:coal" amount="3" />
    <output name="dustCoal" chance="0.6" />
    <output name="gemDiamond" chance="0.001" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Coal Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherCoal" />
    <output name="minecraft:coal" amount="5" />
    <output name="dustCoal" chance="0.6" />
    <output name="gemDiamond" chance="0.001" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Coal Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreCoal" />
    <output name="oreCoal" amount="4" />
  </sagmilling>
</recipe>

<!-- Redstone -->

```



```

<recipe name="Sagmill: oreRedstone Ore" required="true">
  <sagmilling energy="3600">
    <input name="oreRedstone" />
    <output name="dustRedstone" amount="8" />
    <output name="dustRedstone" chance="0.2" />
    <output name="itemSilicon" chance="0.8" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Redstone Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherRedstone" />
    <output name="dustRedstone" amount="21" />
    <output name="dustRedstone" amount="2" chance="0.2" />
    <output name="itemSilicon" amount="2" chance="0.8" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Redstone Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreRedstone" />
    <output name="oreRedstone" amount="4" />
  </sagmilling>
</recipe>

<!-- Diamond -->

<recipe name="Sagmill: oreDiamond Ore" required="true">
  <sagmilling energy="3600">
    <input name="oreDiamond, -railcraft:ore:2" />
    <output name="gemDiamond" amount="2" />
    <output name="gemDiamond" chance="0.25" />
    <output name="dustCoal" chance="0.05" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Diamond Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherDiamond" />
    <output name="gemDiamond" amount="5" />
    <output name="gemDiamond" amount="2" chance="0.25" />
    <output name="dustCoal" amount="2" chance="0.05" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Diamond Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreDiamond" />
    <output name="oreDiamond" amount="4" />
  </sagmilling>
</recipe>

<!-- Emerald -->

<recipe name="Sagmill: oreEmerald Ore" required="true">
  <sagmilling energy="3600">
    <input name="oreEmerald, -railcraft:ore:3" />
    <output name="gemEmerald" amount="2" />
    <output name="gemEmerald" chance="0.25" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Emerald Ore" required="false">

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```

    <sagmilling energy="3200">
      <input name="oreNetherEmerald" />
      <output name="gemEmerald" amount="5" />
      <output name="gemEmerald" amount="2" chance="0.25" />
      <output name="minecraft:netherrack" chance="0.15" />
    </sagmilling>
  </recipe>

<recipe name="Sagmill: Dense Emerald Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreEmerald" />
    <output name="oreEmerald" amount="4" />
  </sagmilling>
</recipe>

<!-- Lapis -->

<recipe name="Sagmill: oreLapis Ore" required="true">
  <sagmilling energy="3600">
    <input name="oreLapis, -railcraft:ore:4" />
    <output name="minecraft:dye:4" amount="8" />
    <output name="minecraft:dye:4" chance="0.2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Lapis Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherLapis" />
    <output name="minecraft:dye:4" amount="24" />
    <output name="minecraft:dye:4" amount="3" chance="0.2" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Lapis Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreLapis" />
    <output name="oreLapis" amount="4" />
  </sagmilling>
</recipe>

<!-- Quartz -->

<recipe name="Sagmill: quartz_ore Ore" required="true">
  <sagmilling energy="3600">
    <input name="minecraft:quartz_ore" />
    <output name="gemQuartz" amount="2" />
    <output name="POWDER_QUARTZ" chance="0.1" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Quartz Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreQuartz" />
    <output name="oreQuartz" amount="4" />
  </sagmilling>
</recipe>

<!-- Apatite -->

<recipe name="Sagmill: Forestry Apatite Ore" required="false">
  <sagmilling energy="3600">
    <input name="forestry:resources:0" />
    <output name="gemApatite" amount="12" />
    <output name="dustSulfur" chance="0.1" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

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    </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Apatite Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherApatite" />
    <output name="gemApatite" amount="24" />
    <output name="dustSulfur" amount="2" chance="0.1" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Apatite Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreApatite" />
    <output name="oreApatite" amount="4" />
  </sagmilling>
</recipe>

<!-- Apatite (Other) -->

<recipe name="Sagmill: oreApatite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreApatite, -forestry:resources:0, -silentgems:gemorelight:7" />
    <output name="gemApatite" amount="2" />
    <output name="gemApatite" chance="0.5" />
    <output name="dustSulfur" chance="0.1" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<!-- CertusQuartz (AE2) -->

<recipe name="Sagmill: appliedenergistics2:quartz_ore Ore" required="false">
  <sagmilling energy="3600">
    <input name="appliedenergistics2:quartz_ore" />
    <output name="crystalCertusQuartz" amount="2" />
    <output name="dustCertusQuartz" chance="0.1" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether CertusQuartz Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherCertusQuartz" />
    <output name="crystalCertusQuartz" amount="4" />
    <output name="dustCertusQuartz" amount="2" chance="0.1" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense CertusQuartz Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreCertusQuartz" />
    <output name="oreCertusQuartz" amount="4" />
  </sagmilling>
</recipe>

<!-- ChargedCertusQuartz (AE2) -->

<recipe name="Sagmill: oreChargedCertusQuartz Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreChargedCertusQuartz" />
    <output name="appliedenergistics2:material:1" amount="2" />
    <output name="dustCertusQuartz" chance="0.1" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

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<recipe name="Sagmill: Nether ChargedCertusQuartz Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherChargedCertusQuartz" />
    <output name="appliedenergistics2:material:1" amount="4" />
    <output name="dustCertusQuartz" amount="2" chance="0.1" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense ChargedCertusQuartz Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreChargedCertusQuartz" />
    <output name="oreChargedCertusQuartz" amount="4" />
  </sagmilling>
</recipe>

<!-- Sulfur (Railcraft) -->

<recipe name="Sagmill: oreSulfur Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreSulfur" />
    <output name="dustSulfur" amount="6" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Sulfur Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherSulfur" />
    <output name="dustSulfur" amount="24" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Sulfur Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreSulfur" />
    <output name="oreSulfur" amount="4" />
  </sagmilling>
</recipe>

<!-- Saltpeter (Railcraft) -->

<recipe name="Sagmill: oreSaltpeter Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreSaltpeter" />
    <output name="dustSaltpeter" amount="4" />
    <output name="minecraft:sand" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Saltpeter Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherSaltpeter" />
    <output name="dustSaltpeter" amount="10" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Saltpeter Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreSaltpeter" />
    <output name="oreSaltpeter" amount="4" />
  </sagmilling>
</recipe>

<!-- Ruby (BoP) -->

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<recipe name="Sagmill: oreRuby Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreRuby" />
    <output name="gemRuby" amount="2" />
    <output name="gemRuby" chance="0.5" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Ruby Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherRuby" />
    <output name="gemRuby" amount="5" />
    <output name="gemRuby" amount="2" chance="0.5" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Peridot (BoP) -->

<recipe name="Sagmill: orePeridot Ore" required="false">
  <sagmilling energy="3600">
    <input name="orePeridot" />
    <output name="gemPeridot" amount="2" />
    <output name="gemPeridot" chance="0.5" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Peridot Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherPeridot" />
    <output name="gemPeridot" amount="5" />
    <output name="gemPeridot" amount="2" chance="0.5" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Topaz (BoP) -->

<recipe name="Sagmill: oreTopaz Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreTopaz" />
    <output name="gemTopaz" amount="2" />
    <output name="gemTopaz" chance="0.5" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Topaz Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherTopaz" />
    <output name="gemTopaz" amount="5" />
    <output name="gemTopaz" amount="2" chance="0.5" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Tanzanite (BoP) -->

<recipe name="Sagmill: oreTanzanite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreTanzanite, -silentgems:gemoredark:10" />
    <output name="gemTanzanite" amount="2" />
    <output name="gemTanzanite" chance="0.5" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>

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</recipe>

<recipe name="Sagmill: Nether Tanzanite Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherTanzanite" />
    <output name="gemTanzanite" amount="5" />
    <output name="gemTanzanite" amount="2" chance="0.5" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Malachite (BoP) -->

<recipe name="Sagmill: oreMalachite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreMalachite, -silentgems:gemoredark:6" />
    <output name="gemMalachite" amount="2" />
    <output name="gemMalachite" chance="0.5" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Malachite Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherMalachite" />
    <output name="gemMalachite" amount="5" />
    <output name="gemMalachite" amount="2" chance="0.5" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Sapphire (BoP) -->

<recipe name="Sagmill: oreSapphire Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreSapphire" />
    <output name="gemSapphire" amount="2" />
    <output name="gemSapphire" chance="0.5" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Sapphire Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherSapphire" />
    <output name="gemSapphire" amount="5" />
    <output name="gemSapphire" amount="2" chance="0.5" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Amber (BoP) -->

<recipe name="Sagmill: oreAmber Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreAmber" />
    <output name="gemAmber" amount="2" />
    <output name="gemAmber" chance="0.5" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Amber Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherAmber" />
    <output name="gemAmber" amount="5" />
    <output name="gemAmber" amount="2" chance="0.5" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

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</sagmilling>
</recipe>

<!-- Amethyst (BoP) -->

<recipe name="Sagmill: oreAmethyst Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreAmethyst" />
    <output name="gemAmethyst" amount="2" />
    <output name="gemAmethyst" chance="0.5" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Amethyst Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherAmethyst" />
    <output name="gemAmethyst" amount="5" />
    <output name="gemAmethyst" amount="2" chance="0.5" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Manganese (Metallurgy) -->

<recipe name="Sagmill: oreManganese Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreManganese" />
    <output name="dustManganese" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Manganese Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherManganese" />
    <output name="dustManganese" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Manganese Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreManganese" />
    <output name="oreManganese" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Manganese Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotManganese" />
    <output name="dustManganese" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Manganese Dust" required="false">
  <smelting>
    <input name="dustManganese" />
    <output name="ingotManganese" />
  </smelting>
</recipe>

<recipe name="Sagmill: Manganese Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockManganese" />
    <output name="dustManganese" amount="9" />
  </sagmilling>
</recipe>
```

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<!-- Zinc (Metallurgy) -->

<recipe name="Sagmill: oreZinc Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreZinc" />
    <output name="dustZinc" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Zinc Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherZinc" />
    <output name="dustZinc" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Zinc Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreZinc" />
    <output name="oreZinc" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Zinc Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotZinc" />
    <output name="dustZinc" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Zinc Dust" required="false">
  <smelting>
    <input name="dustZinc" />
    <output name="ingotZinc" />
  </smelting>
</recipe>

<recipe name="Sagmill: Zinc Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockZinc" />
    <output name="dustZinc" amount="9" />
  </sagmilling>
</recipe>

<!-- Platinum (Metallurgy) -->

<recipe name="Sagmill: orePlatinum Ore" required="false">
  <sagmilling energy="3600">
    <input name="orePlatinum" />
    <output name="dustPlatinum" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
    <output name="dustIridium" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Platinum Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherPlatinum" />
    <output name="dustPlatinum" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
    <output name="dustIridium" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Platinum Ore" required="false">
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    <sagmilling energy="4800">
      <input name="denseorePlatinum" />
      <output name="orePlatinum" amount="4" />
      <output name="dustIridium" chance="0.1"/>
    </sagmilling>
  </recipe>

<recipe name="Sagmill: Platinum Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotPlatinum" />
    <output name="dustPlatinum" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Platinum Dust" required="false">
  <smelting>
    <input name="dustPlatinum" />
    <output name="ingotPlatinum" />
  </smelting>
</recipe>

<recipe name="Sagmill: Platinum Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockPlatinum" />
    <output name="dustPlatinum" amount="9" />
  </sagmilling>
</recipe>

<!-- Ignatius (Metallurgy) -->

<recipe name="Sagmill: oreIgnatius Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreIgnatius" />
    <output name="dustIgnatius" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Ignatius Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherIgnatius" />
    <output name="dustIgnatius" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Ignatius Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreIgnatius" />
    <output name="oreIgnatius" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Ignatius Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotIgnatius" />
    <output name="dustIgnatius" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Ignatius Dust" required="false">
  <smelting>
    <input name="dustIgnatius" />
    <output name="ingotIgnatius" />
  </smelting>
</recipe>

<recipe name="Sagmill: Ignatius Block" required="false">

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    <sagmilling energy="3600" bonus="none">
      <input name="blockIgnatius" />
      <output name="dustIgnatius" amount="9" />
    </sagmilling>
  </recipe>

<!-- ShadowIron (Metallurgy) -->

<recipe name="Sagmill: oreShadowIron Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreShadowIron" />
    <output name="dustShadowIron" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether ShadowIron Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherShadowIron" />
    <output name="dustShadowIron" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense ShadowIron Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreShadowIron" />
    <output name="oreShadowIron" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: ShadowIron Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotShadowIron" />
    <output name="dustShadowIron" />
  </sagmilling>
</recipe>

<recipe name="Smelting: ShadowIron Dust" required="false">
  <smelting>
    <input name="dustShadowIron" />
    <output name="ingotShadowIron" />
  </smelting>
</recipe>

<recipe name="Sagmill: ShadowIron Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockShadowIron" />
    <output name="dustShadowIron" amount="9" />
  </sagmilling>
</recipe>

<!-- Lemurite (Metallurgy) -->

<recipe name="Sagmill: oreLemurite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreLemurite" />
    <output name="dustLemurite" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Lemurite Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherLemurite" />
    <output name="dustLemurite" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>

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</recipe>

<recipe name="Sagmill: Dense Lemurite Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreLemurite" />
    <output name="oreLemurite" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Lemurite Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotLemurite" />
    <output name="dustLemurite" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Lemurite Dust" required="false">
  <smelting>
    <input name="dustLemurite" />
    <output name="ingotLemurite" />
  </smelting>
</recipe>

<recipe name="Sagmill: Lemurite Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockLemurite" />
    <output name="dustLemurite" amount="9" />
  </sagmilling>
</recipe>

<!-- Midasium (Metallurgy) -->

<recipe name="Sagmill: oreMidasium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreMidasium" />
    <output name="dustMidasium" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Midasium Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherMidasium" />
    <output name="dustMidasium" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Midasium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreMidasium" />
    <output name="oreMidasium" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Midasium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotMidasium" />
    <output name="dustMidasium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Midasium Dust" required="false">
  <smelting>
    <input name="dustMidasium" />
    <output name="ingotMidasium" />
  </smelting>
</recipe>
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<recipe name="Sagmill: Midasium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockMidasium" />
    <output name="dustMidasium" amount="9" />
  </sagmilling>
</recipe>

<!-- Vyroxeres (Metallurgy) -->

<recipe name="Sagmill: oreVyroxeres Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreVyroxeres" />
    <output name="dustVyroxeres" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Vyroxeres Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherVyroxeres" />
    <output name="dustVyroxeres" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Vyroxeres Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreVyroxeres" />
    <output name="oreVyroxeres" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Vyroxeres Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotVyroxeres" />
    <output name="dustVyroxeres" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Vyroxeres Dust" required="false">
  <smelting>
    <input name="dustVyroxeres" />
    <output name="ingotVyroxeres" />
  </smelting>
</recipe>

<recipe name="Sagmill: Vyroxeres Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockVyroxeres" />
    <output name="dustVyroxeres" amount="9" />
  </sagmilling>
</recipe>

<!-- Ceruclase (Metallurgy) -->

<recipe name="Sagmill: oreCeruclase Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreCeruclase" />
    <output name="dustCeruclase" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Ceruclase Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherCeruclase" />
    <output name="dustCeruclase" amount="4" />
  </sagmilling>
</recipe>

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    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Ceruclase Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreCeruclase" />
    <output name="oreCeruclase" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Ceruclase Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotCeruclase" />
    <output name="dustCeruclase" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Ceruclase Dust" required="false">
  <smelting>
    <input name="dustCeruclase" />
    <output name="ingotCeruclase" />
  </smelting>
</recipe>

<recipe name="Sagmill: Ceruclase Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockCeruclase" />
    <output name="dustCeruclase" amount="9" />
  </sagmilling>
</recipe>

<!-- Kalendrite (Metallurgy) -->

<recipe name="Sagmill: oreKalendrite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreKalendrite" />
    <output name="dustKalendrite" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Kalendrite Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherKalendrite" />
    <output name="dustKalendrite" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Kalendrite Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreKalendrite" />
    <output name="oreKalendrite" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Kalendrite Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotKalendrite" />
    <output name="dustKalendrite" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Kalendrite Dust" required="false">
  <smelting>
    <input name="dustKalendrite" />
    <output name="ingotKalendrite" />
  </smelting>
</recipe>

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    </smelting>
</recipe>

<recipe name="Sagmill: Kalendrite Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockKalendrite" />
    <output name="dustKalendrite" amount="9" />
  </sagmilling>
</recipe>

<!-- Vulcanite (Metallurgy) -->

<recipe name="Sagmill: oreVulcanite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreVulcanite" />
    <output name="dustVulcanite" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Vulcanite Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherVulcanite" />
    <output name="dustVulcanite" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Vulcanite Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreVulcanite" />
    <output name="oreVulcanite" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Vulcanite Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotVulcanite" />
    <output name="dustVulcanite" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Vulcanite Dust" required="false">
  <smelting>
    <input name="dustVulcanite" />
    <output name="ingotVulcanite" />
  </smelting>
</recipe>

<recipe name="Sagmill: Vulcanite Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockVulcanite" />
    <output name="dustVulcanite" amount="9" />
  </sagmilling>
</recipe>

<!-- Sanguinite (Metallurgy) -->

<recipe name="Sagmill: oreSanguinite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreSanguinite" />
    <output name="dustSanguinite" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Sanguinite Ore" required="false">
  <sagmilling energy="3200">

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    <input name="oreNetherSanguinite" />
    <output name="dustSanguinite" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
</sagmilling>
</recipe>

<recipe name="Sagmill: Dense Sanguinite Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreSanguinite" />
    <output name="oreSanguinite" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Sanguinite Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotSanguinite" />
    <output name="dustSanguinite" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Sanguinite Dust" required="false">
  <smelting>
    <input name="dustSanguinite" />
    <output name="ingotSanguinite" />
  </smelting>
</recipe>

<recipe name="Sagmill: Sanguinite Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockSanguinite" />
    <output name="dustSanguinite" amount="9" />
  </sagmilling>
</recipe>

<!-- Prometheum (Metallurgy) -->

<recipe name="Sagmill: orePrometheum Ore" required="false">
  <sagmilling energy="3600">
    <input name="orePrometheum" />
    <output name="dustPrometheum" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Prometheum Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherPrometheum" />
    <output name="dustPrometheum" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Prometheum Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseorePrometheum" />
    <output name="orePrometheum" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Prometheum Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotPrometheum" />
    <output name="dustPrometheum" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Prometheum Dust" required="false">
  <smelting>

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    <input name="dustPrometheum" />
    <output name="ingotPrometheum" />
</smelting>
</recipe>

<recipe name="Sagmill: Prometheum Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockPrometheum" />
    <output name="dustPrometheum" amount="9" />
  </sagmilling>
</recipe>

<!-- DeepIron (Metallurgy) -->

<recipe name="Sagmill: oreDeepIron Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreDeepIron" />
    <output name="dustDeepIron" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether DeepIron Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherDeepIron" />
    <output name="dustDeepIron" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense DeepIron Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreDeepIron" />
    <output name="oreDeepIron" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: DeepIron Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotDeepIron" />
    <output name="dustDeepIron" />
  </sagmilling>
</recipe>

<recipe name="Smelting: DeepIron Dust" required="false">
  <smelting>
    <input name="dustDeepIron" />
    <output name="ingotDeepIron" />
  </smelting>
</recipe>

<recipe name="Sagmill: DeepIron Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockDeepIron" />
    <output name="dustDeepIron" amount="9" />
  </sagmilling>
</recipe>

<!-- Infuscolium (Metallurgy) -->

<recipe name="Sagmill: oreInfuscolium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreInfuscolium" />
    <output name="dustInfuscolium" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

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<recipe name="Sagmill: Nether Infuscolium Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherInfuscolium" />
    <output name="dustInfuscolium" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Infuscolium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreInfuscolium" />
    <output name="oreInfuscolium" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Infuscolium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotInfuscolium" />
    <output name="dustInfuscolium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Infuscolium Dust" required="false">
  <smelting>
    <input name="dustInfuscolium" />
    <output name="ingotInfuscolium" />
  </smelting>
</recipe>

<recipe name="Sagmill: Infuscolium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockInfuscolium" />
    <output name="dustInfuscolium" amount="9" />
  </sagmilling>
</recipe>

<!-- Oureclase (Metallurgy) -->

<recipe name="Sagmill: oreOureclase Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreOureclase" />
    <output name="dustOureclase" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Oureclase Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherOureclase" />
    <output name="dustOureclase" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Oureclase Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreOureclase" />
    <output name="oreOureclase" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Oureclase Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotOureclase" />
    <output name="dustOureclase" />
  </sagmilling>
</recipe>

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<recipe name="Smelting: Oureclase Dust" required="false">
  <smelting>
    <input name="dustOureclase" />
    <output name="ingotOureclase" />
  </smelting>
</recipe>

<recipe name="Sagmill: Oureclase Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockOureclase" />
    <output name="dustOureclase" amount="9" />
  </sagmilling>
</recipe>

<!-- AstralSilver (Metallurgy) -->

<recipe name="Sagmill: oreAstralSilver Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreAstralSilver" />
    <output name="dustAstralSilver" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether AstralSilver Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherAstralSilver" />
    <output name="dustAstralSilver" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense AstralSilver Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreAstralSilver" />
    <output name="oreAstralSilver" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: AstralSilver Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotAstralSilver" />
    <output name="dustAstralSilver" />
  </sagmilling>
</recipe>

<recipe name="Smelting: AstralSilver Dust" required="false">
  <smelting>
    <input name="dustAstralSilver" />
    <output name="ingotAstralSilver" />
  </smelting>
</recipe>

<recipe name="Sagmill: AstralSilver Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockAstralSilver" />
    <output name="dustAstralSilver" amount="9" />
  </sagmilling>
</recipe>

<!-- Carmot (Metallurgy) -->

<recipe name="Sagmill: oreCarmot Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreCarmot" />
    <output name="dustCarmot" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>

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```
</recipe>

<recipe name="Sagmill: Nether Carmot Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherCarmot" />
    <output name="dustCarmot" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Carmot Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreCarmot" />
    <output name="oreCarmot" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Carmot Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotCarmot" />
    <output name="dustCarmot" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Carmot Dust" required="false">
  <smelting>
    <input name="dustCarmot" />
    <output name="ingotCarmot" />
  </smelting>
</recipe>

<recipe name="Sagmill: Carmot Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockCarmot" />
    <output name="dustCarmot" amount="9" />
  </sagmilling>
</recipe>

<!-- Mithril (Metallurgy) -->

<recipe name="Sagmill: oreMithril Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreMithril" />
    <output name="dustMithril" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Mithril Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherMithril" />
    <output name="dustMithril" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Mithril Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreMithril" />
    <output name="oreMithril" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Mithril Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotMithril" />
    <output name="dustMithril" />
  </sagmilling>
</recipe>
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</recipe>

<recipe name="Smelting: Mithril Dust" required="false">
  <smelting>
    <input name="dustMithril" />
    <output name="ingotMithril" />
  </smelting>
</recipe>

<recipe name="Sagmill: Mithril Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockMithril" />
    <output name="dustMithril" amount="9" />
  </sagmilling>
</recipe>

<!-- Rubracium (Metallurgy) -->

<recipe name="Sagmill: oreRubracium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreRubracium" />
    <output name="dustRubracium" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Rubracium Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherRubracium" />
    <output name="dustRubracium" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Rubracium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreRubracium" />
    <output name="oreRubracium" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Rubracium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotRubracium" />
    <output name="dustRubracium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Rubracium Dust" required="false">
  <smelting>
    <input name="dustRubracium" />
    <output name="ingotRubracium" />
  </smelting>
</recipe>

<recipe name="Sagmill: Rubracium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockRubracium" />
    <output name="dustRubracium" amount="9" />
  </sagmilling>
</recipe>

<!-- Orichalcum (Metallurgy) -->

<recipe name="Sagmill: oreOrichalcum Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreOrichalcum" />
    <output name="dustOrichalcum" amount="2" />
  </sagmilling>
</recipe>

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    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Orichalcum Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherOrichalcum" />
    <output name="dustOrichalcum" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Orichalcum Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreOrichalcum" />
    <output name="oreOrichalcum" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Orichalcum Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotOrichalcum" />
    <output name="dustOrichalcum" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Orichalcum Dust" required="false">
  <smelting>
    <input name="dustOrichalcum" />
    <output name="ingotOrichalcum" />
  </smelting>
</recipe>

<recipe name="Sagmill: Orichalcum Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockOrichalcum" />
    <output name="dustOrichalcum" amount="9" />
  </sagmilling>
</recipe>

<!-- Adamantine (Metallurgy) -->

<recipe name="Sagmill: oreAdamantine Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreAdamantine" />
    <output name="dustAdamantine" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Adamantine Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherAdamantine" />
    <output name="dustAdamantine" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Adamantine Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreAdamantine" />
    <output name="oreAdamantine" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Adamantine Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotAdamantine" />

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    <output name="dustAdamantine" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Adamantine Dust" required="false">
  <smelting>
    <input name="dustAdamantine" />
    <output name="ingotAdamantine" />
  </smelting>
</recipe>

<recipe name="Sagmill: Adamantine Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockAdamantine" />
    <output name="dustAdamantine" amount="9" />
  </sagmilling>
</recipe>

<!-- Atlarus (Metallurgy) -->

<recipe name="Sagmill: oreAtlarus Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreAtlarus" />
    <output name="dustAtlarus" amount="2" />
    <output name="oreDict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Atlarus Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherAtlarus" />
    <output name="dustAtlarus" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Atlarus Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreAtlarus" />
    <output name="oreAtlarus" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Atlarus Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotAtlarus" />
    <output name="dustAtlarus" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Atlarus Dust" required="false">
  <smelting>
    <input name="dustAtlarus" />
    <output name="ingotAtlarus" />
  </smelting>
</recipe>

<recipe name="Sagmill: Atlarus Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockAtlarus" />
    <output name="dustAtlarus" amount="9" />
  </sagmilling>
</recipe>

<!-- Osmium (Mekanism) -->

<recipe name="Sagmill: oreOsmium Ore" required="false">
  <sagmilling energy="3600">

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    <input name="oreOsmium" />
    <output name="dustOsmium" amount="2" />
    <output name="dustOsmium" chance="0.1" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Osmium Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherOsmium" />
    <output name="dustOsmium" amount="4" />
    <output name="dustOsmium" amount="2" chance="0.1" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Osmium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreOsmium" />
    <output name="oreOsmium" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Osmium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotOsmium" />
    <output name="dustOsmium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Osmium Dust" required="false">
  <smelting>
    <input name="dustOsmium" />
    <output name="ingotOsmium" />
  </smelting>
</recipe>

<recipe name="Sagmill: Osmium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockOsmium" />
    <output name="dustOsmium" amount="9" />
  </sagmilling>
</recipe>

<!-- Yellorite (Tiny Reactors) -->

<recipe name="Sagmill: oreYellorite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreYellorite" />
    <output name="dustYellorium" amount="2" />
    <output name="dustCyanite" chance="0.05" required="false" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Yellorite Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherYellorite" />
    <output name="dustYellorium" amount="4" />
    <output name="dustCyanite" amount="2" chance="0.05" required="false" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Yellorite Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreYellorite" />
    <output name="oreYellorite" amount="4" />
  </sagmilling>
</recipe>

```

```
</sagmilling>
</recipe>

<recipe name="Sagmill: Yellorite Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotYellorium" />
    <output name="dustYellorium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Yellorite Dust" required="false">
  <smelting>
    <input name="dustYellorium" />
    <output name="ingotYellorium" />
  </smelting>
</recipe>

<recipe name="Sagmill: Yellorite Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockYellorium" />
    <output name="dustYellorium" amount="9" />
  </sagmilling>
</recipe>

<!-- Ardite (TiC) -->

<recipe name="Sagmill: oreArdite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreArdite" />
    <output name="dustArdite" amount="2" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Ardite Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreArdite" />
    <output name="oreArdite" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Ardite Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotArdite" />
    <output name="dustArdite" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Ardite Dust" required="false">
  <smelting>
    <input name="dustArdite" />
    <output name="ingotArdite" />
  </smelting>
</recipe>

<recipe name="Sagmill: Ardite Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockArdite" />
    <output name="dustArdite" amount="9" />
  </sagmilling>
</recipe>

<!-- Cobalt (TiC) -->

<recipe name="Sagmill: oreCobalt Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreCobalt" />
    <output name="dustCobalt" amount="2" />
  </sagmilling>
</recipe>
```



```

    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Cobalt Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreCobalt" />
    <output name="oreCobalt" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Cobalt Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotCobalt" />
    <output name="dustCobalt" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Cobalt Dust" required="false">
  <smelting>
    <input name="dustCobalt" />
    <output name="ingotCobalt" />
  </smelting>
</recipe>

<recipe name="Sagmill: Cobalt Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockCobalt" />
    <output name="dustCobalt" amount="9" />
  </sagmilling>
</recipe>

<!-- QuartzBlack (AA) -->

<recipe name="Sagmill: oreQuartzBlack Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreQuartzBlack" />
    <output name="dustQuartzBlack" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
    <output name="dustQuartz" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether QuartzBlack Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherQuartzBlack" />
    <output name="dustQuartzBlack" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
    <output name="dustQuartz" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense QuartzBlack Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreQuartzBlack" />
    <output name="oreQuartzBlack" amount="4" />
    <output name="dustQuartz" chance="0.1"/>
  </sagmilling>
</recipe>

<!-- Uranium -->

<recipe name="Sagmill: oreUranium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreUranium" />
    <output name="dustUranium" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>

```

```
</recipe>

<recipe name="Sagmill: Nether Uranium Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherUranium" />
    <output name="dustUranium" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Uranium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreUranium" />
    <output name="oreUranium" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Uranium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotUranium" />
    <output name="dustUranium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Uranium Dust" required="false">
  <smelting>
    <input name="dustUranium" />
    <output name="ingotUranium" />
  </smelting>
</recipe>

<recipe name="Sagmill: Uranium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockUranium" />
    <output name="dustUranium" amount="9" />
  </sagmilling>
</recipe>

<!-- Steel -->

<recipe name="Sagmill: Nether Steel Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherSteel" />
    <output name="dustSteel" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Steel Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotSteel" />
    <output name="dustSteel" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Steel Dust" required="false">
  <smelting>
    <input name="dustSteel" />
    <output name="ingotSteel" />
  </smelting>
</recipe>

<recipe name="Sagmill: Steel Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockSteel" />
    <output name="dustSteel" amount="9" />
  </sagmilling>
</recipe>
```

<!-- Titanium -->

```
<recipe name="Sagmill: oreTitanium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreTitanium" />
    <output name="dustTitanium" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>
```

```
<recipe name="Sagmill: Nether Titanium Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherTitanium" />
    <output name="dustTitanium" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>
```

```
<recipe name="Sagmill: Dense Titanium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreTitanium" />
    <output name="oreTitanium" amount="4" />
  </sagmilling>
</recipe>
```

```
<recipe name="Sagmill: Titanium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotTitanium" />
    <output name="dustTitanium" />
  </sagmilling>
</recipe>
```

```
<recipe name="Smelting: Titanium Dust" required="false">
  <smelting>
    <input name="dustTitanium" />
    <output name="ingotTitanium" />
  </smelting>
</recipe>
```

```
<recipe name="Sagmill: Titanium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockTitanium" />
    <output name="dustTitanium" amount="9" />
  </sagmilling>
</recipe>
```

<!-- Magnesium -->

```
<recipe name="Sagmill: oreMagnesium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreMagnesium" />
    <output name="dustMagnesium" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>
```

```
<recipe name="Sagmill: Nether Magnesium Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherMagnesium" />
    <output name="dustMagnesium" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>
```

```
<recipe name="Sagmill: Dense Magnesium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreMagnesium" />
```

```

    <output name="oreMagnesium" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Magnesium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotMagnesium" />
    <output name="dustMagnesium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Magnesium Dust" required="false">
  <smelting>
    <input name="dustMagnesium" />
    <output name="ingotMagnesium" />
  </smelting>
</recipe>

<recipe name="Sagmill: Magnesium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockMagnesium" />
    <output name="dustMagnesium" amount="9" />
  </sagmilling>
</recipe>

<!-- Tungsten -->

<recipe name="Sagmill: oreTungsten Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreTungsten" />
    <output name="dustTungsten" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Tungsten Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherTungsten" />
    <output name="dustTungsten" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Tungsten Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreTungsten" />
    <output name="oreTungsten" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Tungsten Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotTungsten" />
    <output name="dustTungsten" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Tungsten Dust" required="false">
  <smelting>
    <input name="dustTungsten" />
    <output name="ingotTungsten" />
  </smelting>
</recipe>

<recipe name="Sagmill: Tungsten Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockTungsten" />
    <output name="dustTungsten" amount="9" />
  </sagmilling>
</recipe>

```

```

    </sagmilling>
</recipe>

<!-- Rutile -->

<recipe name="Sagmill: oreRutile Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreRutile" />
    <output name="dustRutile" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Rutile Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherRutile" />
    <output name="dustRutile" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Rutile Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreRutile" />
    <output name="oreRutile" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Rutile Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotRutile" />
    <output name="dustRutile" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Rutile Dust" required="false">
  <smelting>
    <input name="dustRutile" />
    <output name="ingotRutile" />
  </smelting>
</recipe>

<recipe name="Sagmill: Rutile Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockRutile" />
    <output name="dustRutile" amount="9" />
  </sagmilling>
</recipe>

<!-- Salt -->

<recipe name="Sagmill: Nether Salt Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherSalt" />
    <output name="dustSalt" amount="12" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Draconic (Draconic) -->

<recipe name="Sagmill: draconicevolution:draconium_ore:0 Ore" required="false">
  <sagmilling energy="3600">
    <input name="draconicevolution:draconium_ore:0" />
    <output name="dustDraconium" amount="3" />
    <output name="dustDraconium" amount="2" chance="0.4" />
    <output name="dustDraconium" amount="2" chance="0.15" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

```

```

    </sagmilling>
</recipe>

<recipe name="Sagmill: Nether Draconic Ore" required="false">
  <sagmilling energy="3200">
    <input name="oreNetherDraconium" />
    <output name="dustDraconium" amount="4" />
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Dense Draconium Ore" required="false">
  <sagmilling energy="4800">
    <input name="denseoreDraconium" />
    <output name="oreDraconium" amount="4" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Draconium Ingot" required="false">
  <sagmilling energy="2400" bonus="none">
    <input name="ingotDraconium" />
    <output name="dustDraconium" />
  </sagmilling>
</recipe>

<recipe name="Smelting: Draconium Dust" required="false">
  <smelting>
    <input name="dustDraconium" />
    <output name="ingotDraconium" />
  </smelting>
</recipe>

<recipe name="Sagmill: Draconium Block" required="false">
  <sagmilling energy="3600" bonus="none">
    <input name="blockDraconium" />
    <output name="dustDraconium" amount="9" />
  </sagmilling>
</recipe>

<!-- Draconium (Draconic) -->

<recipe name="Sagmill: draconicevolution:draconium_ore:1 Ore" required="false">
  <sagmilling energy="3600">
    <input name="draconicevolution:draconium_ore:1" />
    <output name="dustDraconium" amount="3" />
    <output name="dustDraconium" amount="2" chance="0.4" />
    <output name="dustDraconium" amount="2" chance="0.15"/>
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Draconium (Draconic) -->

<recipe name="Sagmill: draconicevolution:draconium_ore:2 Ore" required="false">
  <sagmilling energy="3600">
    <input name="draconicevolution:draconium_ore:2" />
    <output name="dustDraconium" amount="3" />
    <output name="dustDraconium" amount="2" chance="0.4" />
    <output name="dustDraconium" amount="2" chance="0.15"/>
    <output name="minecraft:end_stone" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Prosperity (Mystical Agriculture) -->

<recipe name="Sagmill: oreProsperity Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreProsperity" />

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        <output name="shardProsperity" amount="4" />
        <output name="oredict:cobblestone" chance="0.15" />
    </sagmilling>
</recipe>

<!-- NetherProsperity (Mystical Agriculture) -->

<recipe name="Sagmill: oreNetherProsperity Ore" required="false">
    <sagmilling energy="3600">
        <input name="oreNetherProsperity" />
        <output name="shardProsperity" amount="4" />
        <output name="minecraft:netherrack" chance="0.15" />
    </sagmilling>
</recipe>

<!-- EndProsperity (Mystical Agriculture) -->

<recipe name="Sagmill: oreEndProsperity Ore" required="false">
    <sagmilling energy="3600">
        <input name="oreEndProsperity" />
        <output name="shardProsperity" amount="4" />
        <output name="minecraft:end_stone" chance="0.15" />
    </sagmilling>
</recipe>

<!-- Inferium (Mystical Agriculture) -->

<recipe name="Sagmill: oreInferium Ore" required="false">
    <sagmilling energy="3600">
        <input name="oreInferium" />
        <output name="essenceInferium" amount="4" />
        <output name="oredict:cobblestone" chance="0.15" />
    </sagmilling>
</recipe>

<!-- NetherInferium (Mystical Agriculture) -->

<recipe name="Sagmill: oreNetherInferium Ore" required="false">
    <sagmilling energy="3600">
        <input name="oreNetherInferium" />
        <output name="essenceInferium" amount="4" />
        <output name="minecraft:netherrack" chance="0.15" />
    </sagmilling>
</recipe>

<!-- EndInferium (Mystical Agriculture) -->

<recipe name="Sagmill: oreEndInferium Ore" required="false">
    <sagmilling energy="3600">
        <input name="oreEndInferium" />
        <output name="essenceInferium" amount="4" />
        <output name="minecraft:end_stone" chance="0.15" />
    </sagmilling>
</recipe>

<!-- DimensionalShard (RFTools) -->

<recipe name="Sagmill: oreDimensionalShard Ore" required="false">
    <sagmilling energy="3600" bonus="chance_only">
        <input name="oreDimensionalShard" />
        <output name="rftools:dimensional_shard" amount="4" />
        <output name="rftools:dimensional_shard" chance="0.50" amount="3" />
        <output name="rftools:dimensional_shard" chance="0.15" amount="3" />
        <output name="minecraft:cobblestone" chance="0.15" amount="1" />
    </sagmilling>
</recipe>

<!-- Tiny Progressions -->

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```

<recipe name="Sagmill: Tiny Progressions Lava Ore" required="false">
  <sagmilling energy="3600">
    <input name="tp:lava_ore" />
    <output name="gemLava" amount="2" />
    <output name="gemLava" chance="0.75" amount="2" />
    <output name="gemLava" chance="0.5"/>
    <output name="minecraft:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Tiny Progressions Ender Ore" required="false">
  <sagmilling energy="3600">
    <input name="tp:ender_ore" />
    <output name="dustEnder" amount="6" />
    <output name="dustEnder" chance="0.75" amount="2" />
    <output name="dustEnder" chance="0.5" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Quark -->

<recipe name="Sagmill: Quark Ender Biotite Ore" required="false">
  <sagmilling energy="3600">
    <input name="quark:biotite_ore" />
    <output name="gemEnderBiotite" amount="2" />
    <output name="gemEnderBiotite" amount="1" chance="0.15"/>
    <output name="minecraft:end_stone" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Thermal Fluid Ores -->

<recipe name="Sagmill: Resonate End Stone" required="false">
  <sagmilling energy="5000">
    <input name="oreClathrateEnder" />
    <output name="crystalEnder" amount="2" />
    <output name="crystalEnder" amount="2" chance="0.25" />
    <output name="minecraft:end_stone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Oil Sand" required="false">
  <sagmilling energy="2000">
    <input name="thermalfoundation:ore_fluid:0" />
    <output name="crystalCrudeOil" amount="2" />
    <output name="crystalCrudeOil" amount="2" chance="0.25" />
    <output name="thermalfoundation:material:833" amount="1" chance="0.15"/>
    <output name="minecraft:sand" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Oil Red Sand" required="false">
  <sagmilling energy="2000">
    <input name="thermalfoundation:ore_fluid:5" />
    <output name="crystalCrudeOil" amount="2" />
    <output name="crystalCrudeOil" amount="2" chance="0.25" />
    <output name="thermalfoundation:material:833" amount="1" chance="0.15"/>
    <output name="minecraft:sand:1" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Oil Shale" required="false">
  <sagmilling energy="2000">
    <input name="oreClathrateOilShale" />
    <output name="crystalCrudeOil" amount="2" />
    <output name="crystalCrudeOil" amount="2" chance="0.25" />
  </sagmilling>
</recipe>

```



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    <output name="minecraft:flint" amount="1" chance="0.15"/>
    <output name="minecraft:gravel" chance="0.15" />
</sagmilling>
</recipe>

<recipe name="Sagmill: Destabilized Redstone Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreClathrateRedstone" />
    <output name="crystalRedstone" amount="2" />
    <output name="crystalRedstone" amount="2" chance="0.25" />
    <output name="itemCinnabar" amount="1" chance="0.5"/>
    <output name="minecraft:stone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Energized Glowstone Ore" required="false">
  <sagmilling energy="2000">
    <input name="oreClathrateGlowstone" />
    <output name="crystalGlowstone" amount="2" />
    <output name="crystalGlowstone" amount="2" chance="0.25" />
    <output name="dustSulfur" amount="1" chance="0.5"/>
    <output name="minecraft:netherrack" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Thermal Non-Standard Ores -->
<recipe name="Sagmill: Iridium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreIridium" />
    <output name="dustIridium" amount="2" />
    <output name="minecraft:cobblestone" chance="0.15" />
    <output name="dustPlatinum" chance="0.1" required="false" />
  </sagmilling>
</recipe>

<!-- Nuclearcraft Ores -->
<recipe name="Sagmill: Thorium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreThorium" />
    <output name="dustThorium" amount="2" />
    <output name="minecraft:cobblestone" chance="0.15" />
    <output name="dustUranium" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Boron Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreBoron" />
    <output name="dustBoron" amount="2" />
    <output name="minecraft:cobblestone" chance="0.15" />
    <output name="dustLithium" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Lithium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreLithium" />
    <output name="dustLithium" amount="2" />
    <output name="minecraft:cobblestone" chance="0.15" />
    <output name="dustBoron" chance="0.1"/>
  </sagmilling>
</recipe>

<!-- Tech Reborn -->
<recipe name="Sagmill: Bauxite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreBauxite" />
    <output name="dustBauxite" amount="2" />

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    <output name="minecraft:cobblestone" chance="0.15" />
    <output name="dustAluminum" chance="0.1"/>
</sagmilling>
</recipe>

<recipe name="Sagmill: Galena Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreGalena" />
    <output name="dustGalena" amount="2" />
    <output name="dustSulfur" chance="0.25" />
    <output name="minecraft:cobblestone" chance="0.15" />
    <output name="dustSilver" chance="0.1"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Pyrite Ore" required="false">
  <sagmilling energy="3600">
    <input name="orePyrite" />
    <output name="dustPyrite" amount="2" />
    <output name="minecraft:netherrack" chance="0.15" />
    <output name="dustSulfur" chance="0.25" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Cinnibar Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreCinnibar" />
    <output name="dustCinnibar" amount="2" />
    <output name="minecraft:netherrack" chance="0.15" />
    <output name="crystalCinnibar" chance="0.5" required="false"/>
  </sagmilling>
</recipe>

<recipe name="Sagmill: Sphalerite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreSphalerite" />
    <output name="dustSphalerite" amount="2" />
    <output name="minecraft:netherrack" chance="0.15" />
    <output name="dustZinc" chance="0.1" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Sheldonite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreSheldonite" />
    <output name="dustPlatinum" amount="2" />
    <output name="minecraft:endstone" chance="0.15" />
    <output name="dustNickel" chance="0.1" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Sodalite Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreSodalite, -silentgems:gemorelight:10" />
    <output name="dustSodalite" amount="2" />
    <output name="minecraft:endstone" chance="0.15" />
    <output name="dustAluminium" chance="0.1" />
  </sagmilling>
</recipe>

<!-- Astral Sorcery -->
<recipe name="Sagmill: Astral Starmetal Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreAstralStarmetal" />
    <output name="dustAstralStarmetal" amount="2" />
    <output name="minecraft:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

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<!-- Matter Overdrive -->
<recipe name="Sagmill: Dilithium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreDilithium" />
    <output name="dustDilithium" amount="2"/>
    <output name="minecraft:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<recipe name="Sagmill: Tritanium Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreTritanium" />
    <output name="dustTritanium" amount="2"/>
    <output name="minecraft:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Thaumcraft -->
<recipe name="Sagmill: Thaumcraft Quartz Ore" required="false">
  <sagmilling energy="3600">
    <input name="thaumcraft:ore_quartz" />
    <output name="gemQuartz" amount="2" />
    <output name="POWDER_QUARTZ" chance="0.1" />
    <output name="minecraft:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

<!-- Ender Ore Mod -->
<recipe name="Sagmill: oreEnder Ore" required="false">
  <sagmilling energy="3600">
    <input name="oreEnder" />
    <output name="dustEnder" amount="2" />
    <output name="oredict:cobblestone" chance="0.15" />
  </sagmilling>
</recipe>

</enderio:recipes>
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