

Ferrocium Composition

It is also known in Europe as **Auermetall** after its inventor Baron [Carl Auer von Welsbach](#). Three different Auermetalls were developed: the first was iron and cerium, the second also included lanthanum to produce brighter sparks, and the third added other heavy metals. In the Baron von Welsbach's first [alloy](#), 30% [iron](#) (ferrum) was added to purified [cerium](#), hence the name "ferro-cerium".

A modern ferrocium firesteel product is composed of an [alloy](#) of [rare-earth metals](#) called [mischmetal](#) (containing approximately 20.8% [iron](#), 41.8% [cerium](#), about 4.4% each of [praseodymium](#), [neodymium](#), and [magnesium](#), plus 24.2% [lanthanum](#)).^[4] A variety of other components are added to modify the spark and processing characteristics.^[1] Most contemporary flints are hardened with [iron oxide](#) and [magnesium oxide](#).

Element	Iron	Cerium	Neodymium	Praseodymium	Magnesium	Lanthanum
Fraction	20.8%	41.8%	4.4%	4.4%	4.4%	24.2%

The Dust or Powder for Each of these components is available for sale

[Iron Dust](#)

Iron Powder - 1lb \$6.95

[Cerium Dust](#)

Cerium Oxide ½ pound Optical Grade, Price \$17.00

[Neodymium Dust](#)

100g (3.52 oz) 99.9% High Purity Neodymium Nd Metal Powder, Rare Earth US \$33.40/ea

[Praseodymium Dust](#)

SKU-Pack Size	Availability	Pack Size	Price (USD)	Quantity
263176-5G	Available to ship on 10/12/19 - FROM	5 G	75.50	<input type="text" value="0"/>

[Magnesium Dust](#)

Price: \$79.96 (\$0.45 / Ounce) & **FREE Shipping**

Size: 5 Kilograms (11 lbs) Powder

[Lanthanum Dust](#)

SKU-Pack Size	Availability	Pack Size	Price (USD)	Quantity
263109-25G	FROM	25 G	526.00	<input type="text" value="0"/>