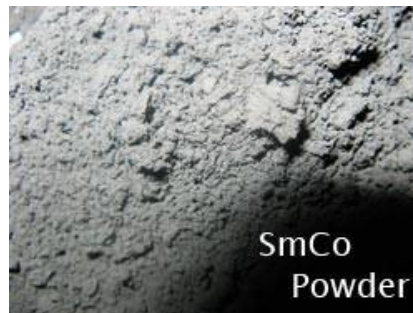


## SmCo Powder

### Production process for SmCo powder and compound:

Put the required metals (of 99.9% purity) composition (strictly according to desired content percentages) into inert gases, where they will be smelted into alloy ingots using hi-frequency heating or electric-arc heating, the alloy ingots will go through solid solution treatment under a certain temperature for a proper period of time, and will be cooled to achieve equality and uniformity, after necessary ageing treatment, they will be fragmentized and milled into stipulated particle size to create the final powder products, by mixing in with PPS or other adding elements, the SmCo compound will be produced. Characteristics for this process:

High-precision in purity of metals composition, low impurity (e.g. oxygen) content, high-availability of high-property powders.



### Magnetic properties of Polymer bonded SmCo magnets by compressing moulding:

Grade	Br	HcB	HcJ	BHmax	Tc.	Tw.	αBr	ALLOY Series
	[mT] [Gs]	KA/m][Oe]	[KA/m][Oe]	[kJ/m3][MGOe]	[°C]	[°C]	[%/°C]	
SB6A	400   4000	278   3500	800   10000	32   4.0	720	120	-0.08	1:5
SB8A	500   5000	318   4000	800   10000	48   6.0	720	120	-0.08	
SB10B	600   6000	358   4500	800   10000	64   8.0	720	120	-0.08	
SB12B	700   7000	318   4000	400   5000	80   10.0	720	120	-0.08	2:17
SB12HB	700	398   5000	800   10000	80   10.0	720	120	-0.08	