

Catalog # 62-3000 Samarium(III) chloride, anhydrous (99.9%-Sm) (REO)



Thermal Behavior:

- Melting point 686°

Technical Notes:

1. Used for the deposition of samarium thin films..

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
SmB ₆	CVD	700-850°C	100 mTorr	B ₁₀ H ₁₄ , Pd ^{Catal}	1000°C	1
	CVD	1070°C	AP	BCl ₃ , H ₂	1070°C	2
SmOCl	CVD	-	-	H ₂ O	760°C	3

References:

1. [Chem. Mater. 2011, 23, 2606.](#)
2. [J. Phys. D, Appl. Phys. 2016, 49, 265302.](#)
3. [J. Exp. Nanosci. 2019, 14, 33.](#)