

Less Common Metals Sm2Co17 Samarium Cobalt Alloy; Vacuum Induction Melting & Casting

Category : Metal , Electronic/Magnetic Alloy , Nonferrous Metal , Cobalt Alloy

Material Notes:

This samarium-cobalt alloy is manufactured by vacuum induction melting and casting and is ideal for achieving a homogeneous material with precise compositional control. Alloying Additions: Gadolinium is a common rare-earth addition to cast Sm-Co based alloy systems. Form: Typically a metallic gray powder, supplied < 300Åµm or < 500Åµm. Other forms, such as cast ingot or crushed granules can also be supplied.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Less-Common-Metals-Sm2Co17-Samarium-Cobalt-Alloy-Vacuum-Induction-Melting-Casting.php

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 0.030 %	<= 0.030 %	
Boron, B	<= 0.00050 %	<= 0.00050 %	
Calcium, Ca	<= 0.0050 %	<= 0.0050 %	
Carbon, C	<= 0.010 %	<= 0.010 %	
Cobalt, Co	39.2445 - 56.5 %	39.2445 - 56.5 %	
Copper, Cu	4.0 - 8.0 %	4.0 - 8.0 %	
Iron, Fe	14 - 19 %	14 - 19 %	
Magnesium, Mg	<= 0.0050 %	<= 0.0050 %	
Nickel, Ni	<= 0.10 %	<= 0.10 %	
Oxygen, O	<= 0.10 %	<= 0.10 %	
Samarium, Sm	24 - 30 %	24 - 30 %	
Silicon, Si	<= 0.0050 %	<= 0.0050 %	
Zirconium, Zr	1.5 - 3.5 %	1.5 - 3.5 %	

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