

IBC Advanced Alloys 43C Beryllium Nickel Casting Alloy

Category: Metal, Nonferrous Metal, Beryllium Alloy, Nickel Alloy

Material Notes:

Beryllium nickel casting alloys are characterized by their steel-like high strength, toughness, and hardness properties. However, unlike the steel alloys, the beryllium nickel alloy system offers these properties with the additional benefit of superior thermal conductivity. Beryllium nickel casting alloys are notable for their high resistance to wear, thermal shock, and corrosion even at elevated temperatures in the range of $1000 \hat{A}^{\circ}F$ ($540 \hat{A}^{\circ}C$). The 40 series BeNiCr Casting Alloys have historically been utilized for high definition precision cast jewelry and commemorative rings, as well as, dental component applications. Information provided by IBC Advanced Alloys.

Order this product through the following link:

http://www.lookpolymers.com/polymer_IBC-Advanced-Alloys-43C-Beryllium-Nickel-Casting-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.22 g/cc	0.297 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	96 - 105	96 - 105	Annealed
Hardness, Rockwell C	42 - 48	42 - 48	Annealed and Aged

Thermal Properties	Metric	English	Comments
CTE, linear	14.4 Âμm/m-°C	8.00 Âμin/in-°F	
Melting Point	1150 - 1260 °C	2100 - 2300 °F	
Solidus	1150 °C	2100 °F	
Liquidus	1260 °C	2300 °F	

Component Elements Properties	Metric	English	Comments
Beryllium, Be	2.5 - 2.85 %	2.5 - 2.85 %	
Chromium, Cr	5.0 - 7.0 %	5.0 - 7.0 %	
Nickel, Ni	90.15 - 92.5 %	90.15 - 92.5 %	As Balance

Processing Properties	Metric	English	Comments
Casting Temperature	1260 - 1370 °C	2300 - 2500 °F	Pouring Range

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