

Kennametal Stellite Nucalloy® 45 (Stoody® 45) Nickel-Chromium-Boron Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Stoody® 45 is a nickel-chromium-boron alloy which derives its superior wear resistance from the presence of hard nickel borides and to lesser extent, chromium carbides tightly held in a tough nickel-rich matrix. Stoody 45 can be certified to meet MIL-N-24422 (ships) Composition B. Wear resistance is usually equal or superior, and where cobalt alloys are limited in some corrosive environments, this alloy can often be specified. Can be used in seal faces, sleeves, bushings and in most applications as an alternative to Stoody 1 castings or 6N weld deposits. Information provided by Deloro Stellite Inc. Deloro Stellite uses both the names Nucalloy® 45 and Stoody® 45 for this alloy. Product of former Deloro Stellite Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kennametal-Stellite-Nucalloy-45-Stoody-45-Nickel-Chromium-Boron-Alloy.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	48 - 58	48 - 58	

Component Elements Properties	Metric	English	Comments
Boron, B	3.4 %	3.4 %	
Carbon, C	0.70 %	0.70 %	
Chromium, Cr	14.5 %	14.5 %	
Iron, Fe	4.0 %	4.0 %	
Nickel, Ni	72 %	72 %	As Remainder
Other	1.0 %	1.0 %	
Silicon, Si	4.0 %	4.0 %	

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