# Kennametal Stellite StoodyÂ® 4 Cobalt-Base Cast Alloy

**Category :** Metal , Nonferrous Metal , Cobalt Alloy , Superalloy

**Material Notes:**

StoodÂ® 4 is a cobalt-base alloy with excellent high temperature strength and generally better corrosion resistance than Alloys 1 and 6. This centrifugally cast alloy derives is good high temperature strength from the high Tungsten to Carbon ratio which allows a large percentage of Tungsten to remain in solid solution.Recommended for dies, in hot pressing or extrusion of Copper base and Aluminum Alloys, high temperature steam turbine components and other applications where high temperature wear/abrasion, corrosion/erosion is present. This alloy is also particularly suited in applications involving Manganese Dioxide, Carbon particles and Ammonium Zinc Chlorides such as in dry battery mixes.Information provided by Deloro Stellite Inc.Product of former Deloro Stellite Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Kennametal-Stellite-Stoody-4-Cobalt-Base-Cast-Alloy.php

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Hardness, Rockwell C | 49 | 49 | |

| Component Elements Properties | Metric | English | Comments |
|---|---|---|---|
| Carbon, C | 1.0 % | 1.0 % | |
| Chromium, Cr | 30 % | 30 % | |
| Cobalt, Co | 50 % | 50 % | As remainder |
| Iron, Fe | 1.0 % | 1.0 % | |
| Nickel, Ni | 1.0 % | 1.0 % | |
| Other | 1.5 % | 1.5 % | |
| Silicon, Si | 1.2 % | 1.2 % | |
| Tungsten, W | 14 % | 14 % | |

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