

## Wall Colmonoy COLMONOY® 705 - Nickel-Chromium-Boron Matrix Alloy With Tungsten Carbide

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Nickel Alloy , Tungsten Alloy

### Material Notes:

Description and Application: A tough nickel-chromium-boron matrix alloy holds extremely hard tungsten-carbide particles used for protection from severe sliding abrasion. Used on screw conveyors and augers. Finished by grinding. Method of Application: Fusewelder  
Information provided by Wall Colmonoy Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Wall-Colmonoy-COLMONOY-705-Nickel-Chromium-Boron-Matrix-Alloy-With-Tungsten-Carbide.php](http://www.lookpolymers.com/polymer_Wall-Colmonoy-COLMONOY-705-Nickel-Chromium-Boron-Matrix-Alloy-With-Tungsten-Carbide.php)

| Physical Properties | Metric     | English                   | Comments |
|---------------------|------------|---------------------------|----------|
| Density             | 13.38 g/cc | 0.4834 lb/in <sup>3</sup> |          |

| Mechanical Properties | Metric  | English | Comments |
|-----------------------|---------|---------|----------|
| Hardness, Rockwell C  | 58 - 63 | 58 - 63 |          |

| Component Elements Properties | Metric | English | Comments   |
|-------------------------------|--------|---------|------------|
| Boron, B                      | 1.5 %  | 1.5 %   |            |
| Carbon, C                     | 2.2 %  | 2.2 %   |            |
| Chromium, Cr                  | 7.0 %  | 7.0 %   |            |
| Cobalt, Co                    | 0.10 % | 0.10 %  |            |
| Iron, Fe                      | 2.0 %  | 2.0 %   |            |
| Nickel, Ni                    | 37.1 % | 37.1 %  | As Balance |
| Silicon, Si                   | 1.9 %  | 1.9 %   |            |
| Tungsten, W                   | 48.2 % | 48.2 %  |            |

| Processing Properties  | Metric  | English | Comments           |
|------------------------|---------|---------|--------------------|
| Processing Temperature | 1024 °C | 1875 °F | fusing temperature |

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