

## Goodfellow Havar® High-Strength Non-Magnetic Cobalt-Base Alloy

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

### Material Notes:

Co42.5/Cr20/Ni13/Fe/W/Mo/Mn Information provided by Goodfellow.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Goodfellow-Havar-High-Strength-Non-Magnetic-Cobalt-Base-Alloy.php](http://www.lookpolymers.com/polymer_Goodfellow-Havar-High-Strength-Non-Magnetic-Cobalt-Base-Alloy.php)

| Physical Properties | Metric    | English                  | Comments |
|---------------------|-----------|--------------------------|----------|
| Density             | 8.30 g/cc | 0.300 lb/in <sup>3</sup> |          |

| Mechanical Properties     | Metric   | English    | Comments |
|---------------------------|----------|------------|----------|
| Tensile Strength at Break | 1860 MPa | 270000 psi |          |
| Elongation at Break       | 1.0 %    | 1.0 %      |          |
| Tensile Modulus           | 200 GPa  | 29000 ksi  |          |

| Thermal Properties   | Metric                      | English                           | Comments |
|----------------------|-----------------------------|-----------------------------------|----------|
| CTE, linear          | 9.50 - 11.0 µm/m-°C         | 5.28 - 6.11 µin/in-°F             |          |
|                      | @ Temperature 20.0 - 100 °C | @ Temperature 68.0 - 212 °F       |          |
| Thermal Conductivity | 14.7 W/m-K                  | 102 BTU-in/hr-ft <sup>2</sup> -°F |          |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Chromium, Cr                  | 20 %   | 20 %    |          |
| Cobalt, Co                    | 42.5 % | 42.5 %  |          |
| Nickel, Ni                    | 13 %   | 13 %    |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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