

Goodfellow Tungsten 75/Rhenium 25 Alloy

Category : Metal , Nonferrous Metal , Refractory Metal , Tungsten Alloy

Material Notes:

When used with Tungsten the alloy is an important high temperature thermocouple wire. The alloy can also be used as a filament. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Tungsten-75Rhenium-25-Alloy.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 19.7 g/cc | 0.712 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------|---------------------|----------|
| Tensile Strength at Break | 1310 - 2100 MPa | 190000 - 305000 psi | |
| Elongation at Break | <= 20 % | <= 20 % | |
| Tensile Modulus | 370 - 430 GPa | 53700 - 62400 ksi | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--|--|----------|
| CTE, linear | 4.48 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 2.49 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | |
| | @Temperature 0.000 - 500 $^\circ\text{C}$ | @Temperature 32.0 - 932 $^\circ\text{F}$ | |
| Melting Point | 3100 $^\circ\text{C}$ | 5610 $^\circ\text{F}$ | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Rhenium, Re | 25 % | 25 % | |
| Tungsten, W | 75 % | 75 % | |

| Electrical Properties | Metric | English | Comments |
|------------------------|------------------|------------------|----------|
| Electrical Resistivity | 0.0000290 ohm-cm | 0.0000290 ohm-cm | |

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