

## Goodfellow Niobium 99/Zirconium 1 Alloy

Category : Metal , Nonferrous Metal , Niobium Alloy , Refractory Metal

### Material Notes:

High temperature alloy used in Sodium and Magnesium vapor lamp electrodes and for coating the inside of Stainless Steel 316 tubes to improve corrosion resistance. The alloy combines moderate strength with excellent fabrication properties and is used extensively in nuclear applications because it has a low thermal neutron absorption cross section, good corrosion resistance and good resistance to radiation damage. Information provided by Goodfellow.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Goodfellow-Niobium-99Zirconium-1-Alloy.php](http://www.lookpolymers.com/polymer_Goodfellow-Niobium-99Zirconium-1-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.59 g/cc	0.310 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	65 - 140	65 - 140	kg(f)/mm <sup>2</sup>
Tensile Strength at Break	330 - 620 MPa	47900 - 89900 psi	
Elongation at Break	5.0 - 30 %	5.0 - 30 %	

Thermal Properties	Metric	English	Comments
Melting Point	2399 °C	4350 °F	

Component Elements Properties	Metric	English	Comments
Niobium, Nb (Columbium, Cb)	99 %	99 %	
Zirconium, Zr	1.0 %	1.0 %	

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