



Tungsten Alloy Rod Similar to Anviloy 1150

Tungsten Alloy Rod Similar to Anviloy 1150 Introduction:Tungsten alloy rod (WMoNiFe) similar to Anviloy 1150 is a tungsten-based material made using special high temperature powder metallurgy techniques. This kind of WMoNiFe material has a low coefficient of thermal expansion, good thermal conductivity and good material properties at elevated temperatures. Tungsten alloy rod (WMoNiFe) similar to Anviloy 1150 is used as a base due to its high melting point and low coefficient of thermal expansion. Elements added to the tungsten alloy enhance machinability, ductility and welding.

Tungsten Alloy Rod Similar to Anviloy 1150 Properties

Properties	Metric	English
Density	17.2 g/cm ³	0.623 lb/in ³
Hardness	34 HRC	34 HRC
Ultimate Tensile Strength	960 MPa	140 kpsi
Yield Tensile Strength	860MPa	120 kpsi
Elongation at Break	3 %	3 %

Tungsten Alloy Rod Similar to Anviloy 1150 Benefits:Anviloy 1150

- 1, Removes heat four times faster than traditional tool steel,
- 2, Provides additional cooling
- 3, Readily machinable
- 4, Worn parts are easily re-machined into smaller diameter core pins or larger extrusion dies
- 5, Requires no pre or post machining heat treatment,
- 6, Easily welded and repaired with Anviloy Weld Rod



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Anviloy 1150 is a tungsten-based material that was developed primarily for die-casting, aluminum permanent mold, and difficult extrusions. To produce Anviloy 1150 material, we use special high temperature powder metallurgy processes. A low coefficient of thermal expansion, good thermal conductivity and good material properties at elevated temperatures combine for superior performance in a variety of applications. This unusual combination of properties results in less thermal fatigue and soldering in the die cast or extrusion.