Kennametal Stellite Tribaloy® T-900

Categories: Metal; Nonferrous Metal; Cobalt Alloy; Superalloy

Material Notes: Hardened by Laves phase, not by carbides. Higher ductility than Tribaloy® T-800.

Applications: Used in applications with high temperatures and severe wear, abrasion, and corrosion.

Corrosion: Good localized corrosion resistance.

Weldability: Can be PTA welded with a preheat of 260°C (500°F) or higher.

Wear: High temperature wear resistance. Wear test data: Method: block-on-ring; Block: alloy specimen; Ring: SAE 4620 steel, Rc 58-63, RMS 22-28 microns; Load: 90, 150, 210 lbs.; Sliding distance: 220 meters (2000 revolutions). Wear volume 90 lb. load: 0.000012(in^3), 150 lb. load: 0.000019(in^3), 210 lb. load: 0.000024(in^3); Mean wear scar width 90 lb. 0.07(in), 150 lb. 0.09(in), 210 lb. 0.09(in); Friction force 90 lb. 39(lb), 150 lb. 59(lb), 210 lb. 80(lb).

Data provided by the manufacturer, Deloro Stellite, Inc.

Product of former Deloro Stellite Inc.

Vendors: **Click here to view all available suppliers for this material.**

Please click here if you are a supplier and would like information on how to add your listing to this material.

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	476	476	Converted from Rockwell C hardness.
Hardness, Knoop	574	574	Converted from Rockwell C hardness.
Hardness, Rockwell A	75	75	Converted from Rockwell C hardness.
Hardness, Rockwell C	48 - 52	48 - 52	Retains hardness up to 2640°F (1450°C).
Hardness, Vickers	510	510	Converted from Rockwell C hardness.

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	
Chromium, Cr	18 %	18 %	
Cobalt, Co	40.22 %	40.22 %	As remainder
Molybdenum, Mo	23 %	23 %	
Nickel, Ni	<= 16 %	<= 16 %	
Silicon, Si	2.7 %	2.7 %	