

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(in³), 150 lb. load: 0.000019(in³), 210 lb. load: 0.000024(in³); 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 %	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.