

## Kennametal Stellite Tribaloy® T-800

Categories: [Metal](#); [Nonferrous Metal](#); [Cobalt Alloy](#); [Superalloy](#)

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

**Notes:**

**Weldability:** Can be PTA welded with a preheat of 538°C (1000°F) or higher.

**Wear:** 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: 0.000007(in<sup>3</sup>), 150 lb. load: 0.000066(in<sup>3</sup>), 210 lb. load: 0.000094(in<sup>3</sup>); Mean wear scar width 90 lb. 0.06(in), 150 lb. 0.13(in), 210 lb. 0.15(in); Friction force 90 lb. 41(lb), 150 lb. 64(lb), 210 lb. 77(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, Rockwell C	58	58	Retains high hardness up to 2640°F (1450°C).
Tensile Strength, Ultimate	700 MPa	102000 psi	
Elongation at Break	<= 1.0 %	<= 1.0 %	

  

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	
Chromium, Cr	18 %	18 %	
Cobalt, Co	49.52 %	49.52 %	As remainder
Molybdenum, Mo	28 %	28 %	
Nickel, Ni	<= 1.0 %	<= 1.0 %	
Silicon, Si	3.4 %	3.4 %	

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.