

## Kennametal Stellite Tribaloy® T-700 Nickel Alloy

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

**Material Notes:** Tribaloy T-700 has high corrosion and oxidation resistance. It does not contain cobalt and is a prime candidate for nuclear applications (replacing Co-Cr-W alloys). T-700 is not susceptible to radiation activation.

Information provided by Kennametal Stellite™

**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	45 - 52	45 - 52	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	
Chromium, Cr	16 %	16 %	
Cobalt, Co	<= 1.5 %	<= 1.5 %	
Iron, Fe	<= 1.5 %	<= 1.5 %	
Molybdenum, Mo	32 %	32 %	
Nickel, Ni	>= 44.52 %	>= 44.52 %	as balance
Other	<= 1.0 %	<= 1.0 %	
Silicon, Si	3.4 %	3.4 %	

### Descriptive Properties

Application Technique	HVOF & thermal spray PTA & laser deposition
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