

Kennametal Stellite® F Cobalt Alloy

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

Material Notes: Kennametal Stellite's™ cobalt base alloys are available as cobalt rods, cobalt electrodes, cobalt wire and cobalt powder.

Cobalt alloys are used primarily for wear applications and are particularly well-suited for hardfacing applications.

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	40 - 45	40 - 45	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.8 %	1.8 %	
Chromium, Cr	26 %	26 %	
Cobalt, Co	>= 33.1 %	>= 33.1 %	as balance
Iron, Fe	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	<= 1.0 %	<= 1.0 %	
Nickel, Ni	22 %	22 %	
Other	<= 0.50 %	<= 0.50 %	
Silicon, Si	1.1 %	1.1 %	
Tungsten, W	12.5 %	12.5 %	

Descriptive Properties

Application Technique	PTA & laser deposition
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