

Crucible Steel 174 SXR Precipitation Hardening Stainless Steel

Category : Metal , Ferrous Metal , Stainless Steel , Precipitation Hardening Stainless

Material Notes:

Crucible 174 SXR is a premium quality precipitation- hardening stainless steel designed for use as rifle barrels. It is a modification of Crucible's 17Cr-4Ni which offers substantially improved machinability without sacrificing toughness. Its excellent corrosion resistance approaches that of a 300 series austenitic stainless steel, while its high strength is characteristic of 400 series martensitic stainless steels. At similar hardness levels, Crucible 174 SXR offers greater toughness than either the 410 or the 416 stainless steels which are commonly used for rifle barrels. Information provided by Crucible Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-174-SXR-Precipitation-Hardening-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	33	33	hardened H1150
	@Treatment Temp. 621 °C	@Treatment Temp. 1150 °F	
	36	36	hardened H1025
	@Treatment Temp. 579.4 °C	@Treatment Temp. 1075 °F	
	38	38	hardened H1025
	@Treatment Temp. 551.7 °C	@Treatment Temp. 1025 °F	
Charpy Impact	54.2 J	40.0 ft-lb	hardened H1025; V-notch
	@Treatment Temp. 551.7 °C	@Treatment Temp. 1025 °F	
	58.3 J	43.0 ft-lb	hardened H1025; V-notch
	@Treatment Temp. 579.4 °C	@Treatment Temp. 1075 °F	
	136 J	100 ft-lb	hardened H1150; V-notch
	@Treatment Temp. 621 °C	@Treatment Temp. 1150 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	15.25 %	15.25 %	
Copper, Cu	3.5 %	3.5 %	
Iron, Fe	75 %	75 %	as balance

Manganese Mn Component Elements Properties	0.60 % Metric	0.60 % English	Comments
Nickel, Ni	4.8 %	4.8 %	
Niobium, Nb (Columbium, Cb)	0.20 %	0.20 %	
Nitrogen, N	0.015 %	0.015 %	
Phosphorous, P	0.025 %	0.025 %	
Silicon, Si	0.50 %	0.50 %	
Sulfur, S	0.020 %	0.020 %	

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