

Crucible Steel S7 XL (Premium AISI S7) Tool Steel

Category : Metal , Ferrous Metal , Tool Steel , Mold Steel

Material Notes:

Crucible S7XL is a double refined, high purity grade of S7. The remelt operation produces a cleaner steel with a more uniform microstructure, offering the following advantages over conventional S7: Better Consistency in Wire EDM Cutting Higher Polishability for Critical Finish Plastic Molds More Uniform Texturing for Plastic Molds Higher Transverse Impact Toughness (Across the Grain) Crucible S7 XL can be used in any application where AISI S7 is used. Information provided by Crucible Specialty Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-S7-XL-Premium-AISI-S7-Tool-Steel.php

Physical Properties	Metric	English	Comments
Density	7.83 g/cc	0.283 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	187 - 220	187 - 220	Annealed
Hardness, Rockwell C	57	57	Austenitizing Temperature- 955°C
Modulus of Elasticity	207 GPa	30000 ksi	
Charpy Impact	125 J	92.2 ft-lb	Austenitizing Temperature- 955°C

Thermal Properties	Metric	English	Comments
CTE, linear	12.6 µm/m-°C	7.00 µin/in-°F	
	@Temperature 20.0 - 205 °C	@Temperature 68.0 - 401 °F	
	13.7 µm/m-°C	7.61 µin/in-°F	
	@Temperature 20.0 - 540 °C	@Temperature 68.0 - 1000 °F	
Thermal Conductivity	28.5 W/m-K	198 BTU-in/hr-ft ² -°F	
	@Temperature 95.0 °C	@Temperature 203 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.55 %	0.55 %	
Chromium, Cr	3.25 %	3.25 %	
Iron, Fe	93.5 %	93.5 %	As Remainder
Manganese, Mn	0.70 %	0.70 %	

Component Elements Properties	Metric	English	Comments
Silicon, Si	0.35 %	0.35 %	
Vanadium, V	0.25 %	0.25 %	

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