

Crucible Steel MAXEL® 3-1/2 (Brake Die) Free-Machining Alloy Steel, AISI 4150 S

Category : Metal , Ferrous Metal , Alloy Steel , AISI 4000 Series Steel

Material Notes:

MAXEL 3-1/2 free-machining alloy steel provides a good combination of heat treated properties and machinability. This alloy steel is manufactured under close quality control to an ASTM grain size of 5 to 8. It is suitable for service applications where strength, toughness, and hardness are required. MAXEL 3-1/2 can be supplied in the heat treated and stress relieved condition to a hardness of BHN 269/321. This results in not only an economic advantage, but also minimizes distortion normally encountered in heat treating finished parts. Information provided by Crucible Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-MAXEL-3-12-Brake-Die-Free-Machining-Alloy-Steel-AISI-4150-S.php

Physical Properties	Metric	English	Comments
Density	7.81 g/cc	0.282 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	170 - 212	170 - 212	
Modulus of Elasticity	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.7 µm/m-°C	6.50 µin/in-°F	
	@Temperature 21.1 - 93.3 °C	@Temperature 70.0 - 200 °F	
	12.6 µm/m-°C	7.00 µin/in-°F	
	@Temperature 21.1 - 204 °C	@Temperature 70.0 - 400 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.50 %	0.50 %	
Chromium, Cr	0.65 %	0.65 %	
Iron, Fe	97 %	97 %	as balance
Manganese, Mn	1.25 %	1.25 %	
Molybdenum, Mo	0.15 %	0.15 %	
Silicon, Si	0.25 %	0.25 %	
Sulfur, S	0.080 %	0.080 %	

Component Elements Properties	Metric	English	Comments
Chemical Properties	Metric	English	Comments
Critical Temperature	738 °C	1360 °F	

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