

Crucible Steel AIRDI® 150 (AISI D2) Tool Steel

Category : Metal , Ferrous Metal , Carbon Steel , High Carbon Steel , Tool Steel , Air-Hardening Steel

Material Notes:

Airdi 150 (AISI D2) is an air-hardening, high carbon, high chromium tool steel, heat treatable to HRC 60-62. It offers excellent abrasion resistance, due to a large volume of carbides in the microstructure. Airdi 150 (D2) has been widely used for many years in cold work applications requiring very high wear resistance. It is machinable in the annealed condition and, like other air-hardening tool steels, exhibits minimal distortion on hardening. Information provided by Crucible Specialty Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-AIRDI-150-AISI-D2-Tool-Steel.php

Physical Properties	Metric	English	Comments
Density	7.695 g/cc	0.2780 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	221 - 225	221 - 225	Annealed
Hardness, Rockwell C	60 - 62	60 - 62	
Modulus of Elasticity	207 GPa	30000 ksi	
Charpy Impact	28.0 J	20.7 ft-lb	Austenitizing Temperature- 1010°C

Thermal Properties	Metric	English	Comments
CTE, linear	10.4 μm/m-°C	5.78 μin/in-°F	
	@Temperature 20.0 - 95.0 °C	@Temperature 68.0 - 203 °F	
	11.3 μm/m-°C	6.28 μin/in-°F	
Thermal Conductivity	@Temperature 20.0 - 205 °C	@Temperature 68.0 - 401 °F	
	12.6 μm/m-°C	7.00 μin/in-°F	
	@Temperature 20.0 - 540 °C	@Temperature 68.0 - 1000 °F	
Thermal Conductivity	20.9 W/m-K	145 BTU-in/hr-ft ² -°F	
	@Temperature 95.0 °C	@Temperature 203 °F	
	24.2 W/m-K	168 BTU-in/hr-ft ² -°F	
Thermal Conductivity	@Temperature 315 °C	@Temperature 599 °F	
	25.6 W/m-K	178 BTU-in/hr-ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	

Thermal Properties	Metric (%)	English (%)	Comments
Shrinkage	@Treatment Temp. 1010 °C	@Treatment Temp. 1850 °F	Hardening

Component Elements Properties	Metric	English	Comments
Carbon, C	1.55 %	1.55 %	
Chromium, Cr	11.5 %	11.5 %	
Iron, Fe	85.25 %	85.25 %	As Remainder
Molybdenum, Mo	0.90 %	0.90 %	
Vanadium, V	0.80 %	0.80 %	

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