

EDRO #2 Prehardened 4130 Holder Block

Category : Metal , Ferrous Metal , Alloy Steel , AISI 4000 Series Steel , Chrome-moly Steel

Material Notes:

EDRO #2™ is a vacuum-degassed Chromium-Molybdenum-alloyed steel which is supplied in the hardened and tempered condition. EDRO #2™ is characterized by excellent machinability, good resistance to indentation, and uniform hardness in all dimensions. Applications: holders/bolsters for plastic molds and die-casting dies, plastics and rubber molds with low requirements on polishability, support plates, and constructional parts. Information provided by EDRO

Order this product through the following link:

http://www.lookpolymers.com/polymer_EDRO-2-Prehardened-4130-Holder-Block.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	293 - 332	293 - 332	
Hardness, Vickers	650	650	Nitriding in ammonia gas
	@Treatment Temp. 525 °C	@Treatment Temp. 977 °F	
	700	700	Tufftriding (Tenifer process)
	@Treatment Temp. 570 °C	@Treatment Temp. 1060 °F	
Tensile Strength, Ultimate	793 MPa	115000 psi	Round bar 1" diameter, 310 HB
	@Temperature 399 °C	@Temperature 750 °F	
	951 MPa	138000 psi	
	@Temperature 199 °C	@Temperature 390 °F	Round bar 1" diameter, 310 HB
	1010 MPa	146000 psi	Round bar 1" diameter, 310 HB
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Tensile Strength, Yield	627 MPa	91000 psi	Round bar 1" diameter, 310 HB
	@Temperature 399 °C	@Temperature 750 °F	
	752 MPa	109000 psi	Round bar 1" diameter, 310 HB
	@Temperature 199 °C	@Temperature 390 °F	
	800 MPa	116000 psi	Round bar 1" diameter, 310 HB
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Elongation at Yield	18 %	18 %	in 2"
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	20 %	20 %	in 2"
	@Temperature 199 °C	@Temperature 390 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 399 °C	@Temperature 750 °F	in 2"
Reduction of Area	50 %	50 %	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	52 %	52 %	
	@Temperature 199 °C	@Temperature 390 °F	
	54 %	54 %	
	@Temperature 399 °C	@Temperature 750 °F	
Charpy Impact	50.2 J	37.0 ft-lb	Round bar 1" diameter, 310 HB
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	55.6 J	41.0 ft-lb	Round bar 1" diameter, 310 HB
	@Temperature 199 °C	@Temperature 390 °F	
	71.9 J	53.0 ft-lb	Round bar 1" diameter, 310 HB
	@Temperature 399 °C	@Temperature 750 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.30 %	0.30 %	
Chromium, Cr	1.0 %	1.0 %	
Iron, Fe	96.72 %	96.72 %	As Balance
Manganese, Mn	1.1 %	1.1 %	
Molybdenum, Mo	0.20 %	0.20 %	
Silicon, Si	0.28 %	0.28 %	
Sulfur, S	0.40 %	0.40 %	

Descriptive Properties	Value	Comments
Color Code	Blue	

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