

Assab Steels 760 Machinery Steel

Category : Metal , Ferrous Metal , Carbon Steel

Material Notes:

ASSAB 760 is an easily machinable carbon steel characterized by: Good machinability Good mechanical strength ASSAB 760 is primarily intended to be used in the as-delivered condition. It is only to be heat treated for special applications. Applications: Applications include: punch holders, die holders, guide plates, backing plates, jigs, fixtures, simple bending dies, simple structural components AISI 1148, JIS S50C

Order this product through the following link:

http://www.lookpolymers.com/polymer_Assab-Steels-760-Machinery-Steel.php

Physical Properties	Metric	English	Comments
Density	7.86 g/cc	0.284 lb/in ³	200 HB
	7.75 g/cc	0.280 lb/in ³	200 HB
	@Temperature 400 °C	@Temperature 752 °F	
Density	7.83 g/cc	0.283 lb/in ³	200 HB
	@Temperature 200 °C	@Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	210	210	Hardness supplied approx.
Hardness, Rockwell C	20	20	Hardness after tempering at 600°C. Holding time 1 hour. Quenched in oil.
	21	21	Dimension ø 100 mm. 30 mm below surface. Hardening in oil.
	25	25	Dimension ø 100 mm. 30 mm below surface. Hardening in water.
	27	27	Dimension ø 100 mm. 5 mm below surface. Hardening in oil.
	27	27	Hardness after tempering at 400°C. Holding time 1 hour. Quenched in oil.
	27	27	Hardness after tempering at 600°C. Holding time 1 hour. Quenched in water.
	31	31	Hardness after tempering at 200°C. Holding time 1 hour. Quenched in oil.
	40	40	Dimension ø 100 mm. 5 mm below surface. Hardening in water.
	45	45	Hardness after tempering at 400°C. Holding time 1 hour. Quenched in water.

Mechanical Properties	Metric	English	Comments
			Hardness after tempering at 200°C. Holding time 1 hour. Quenched in water.
Tensile Strength, Ultimate	640 MPa	92800 psi	Rm. 200 HB.
Tensile Strength, Yield	340 MPa	49300 psi	R _{p0.2} . 200 HB.
Elongation at Break	20 %	20 %	
Reduction of Area	40 %	40 %	
Modulus of Elasticity	195 GPa	28300 ksi	200 HB.
	177 GPa	25700 ksi	200 HB.
	@Temperature 400 °C	@Temperature 752 °F	
	193 GPa	28000 ksi	200 HB.
	@Temperature 200 °C	@Temperature 392 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 µm/m-°C	6.67 µin/in-°F	200 HB
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
	13.5 µm/m-°C	7.50 µin/in-°F	200 HB
	@Temperature 20.0 - 400 °C	@Temperature 68.0 - 752 °F	
Thermal Conductivity	40.0 W/m-K	278 BTU-in/hr-ft ² -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	41.0 W/m-K	285 BTU-in/hr-ft ² -°F	200 HB
	@Temperature 400 °C	@Temperature 752 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.50 %	0.50 %	
Iron, Fe	98.5 %	98.5 %	
Manganese, Mn	0.70 %	0.70 %	
Silicon, Si	0.30 %	0.30 %	

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