

Assab Steels 7210M Machinery Steel

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

ASSAB 7210M is an alloyed case hardening steel with high core strength. Applications: ASSAB 7210M is used for applications requiring a hard, wear resistant surface and a tough core, such as transmission components for the automotive industry. ASSAB 7210M is used for complicated parts, subject to strict demands on dimensional stability, core hardness and toughness. AISI /SAE 3115, DIN 15CrNi6, BS 637A16 (EN 352), AFNOR 16Nc6, JIS SNC21, SS 2511

Order this product through the following link:

http://www.lookpolymers.com/polymer_Assab-Steels-7210M-Machinery-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	217	217	maximum hot rolled supplied
	200 - 350	200 - 350	63 mm diameter. Core strength in hardened condition.
	300 - 405 @Diameter 11.0 mm	300 - 405 @Diameter 0.433 in	Core strength in hardened condition,
Hardness, Rockwell C	<= 25	<= 25	30 mm from the quenched end.
	21 - 35	21 - 35	10 mm from the quenched end.
	55	55	tempering temperature 300°C.
	64	64	tempering temperature 100°C.
Tensile Strength, Ultimate	690 - 980 MPa @Diameter 63.0 mm	100000 - 142000 psi @Diameter 2.48 in	Rm. Core strength in hardened condition.
	980 - 1320 MPa @Diameter 11.0 mm	142000 - 191000 psi @Diameter 0.433 in	Rm. Core strength in hardened condition.
Tensile Strength, Yield	>= 440 MPa @Diameter 63.0 mm	>= 63800 psi @Diameter 2.48 in	Re. Core strength in hardened condition.
	>= 640 MPa @Diameter 11.0 mm	>= 92800 psi @Diameter 0.433 in	Re. Core strength in hardened condition.
Elongation at Break	>= 11 %	>= 11 %	63 mm diameter. Core strength in hardened condition.
	>= 8.0 % @Diameter 11.0 mm	>= 8.0 % @Diameter 0.433 in	Core strength in hardened condition,
Reduction of Area	>= 30 %	>= 30 %	63 mm diameter, Core strength in hardened condition,

Mechanical Properties	Metric	English	Comments
	@Diameter 11.0 mm	@Diameter 0.433 in	Core strength in hardened condition,
Impact Test	30.0 J	22.1 ft-lb	63 mm diameter. Core strength in hardened condition.

Component Elements Properties	Metric	English	Comments
Carbon, C	0.15 %	0.15 %	
Chromium, Cr	0.80 %	0.80 %	
Iron, Fe	96.6 %	96.6 %	
Manganese, Mn	0.90 %	0.90 %	
Molybdenum, Mo	1.2 %	1.2 %	
Nickel, Ni	0.10 %	0.10 %	
Silicon, Si	0.25 %	0.25 %	

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