

SSAB Tunplatt Domex® 014 BOR Oil quenched Boron Steel

Category : Metal , Ferrous Metal , Alloy Steel , Low Alloy Steel

Material Notes:

Domex® is the brand name of hot rolled products from SSAB Tunplatt. Compared to conventional quenched and tempered steels, boron steel have several benefits including better formability. Boron steels are used for a wide variety of applications - as a wear material and as a high-strength structural steel. Examples include wear plate, screen plate, punching tools, spades, knives, saw blades, caterpillar tracks, and agricultural machinery. Data provided by SSAB Tunplatt.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SSAB-Tunplatt-Domex-014-BOR-Oil-quenched-Boron-Steel.php

Physical Properties	Metric	English	Comments
Density	7.87 g/cc	0.284 lb/in ³	Estimated by MatWeb

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	420	420	HV ₁₀ ; approximate
Tensile Strength, Ultimate	1330 MPa	193000 psi	
Tensile Strength, Yield	950 MPa	138000 psi	
Elongation at Break	10 %	10 %	A ₅
Impact	30	30	J/cm ² ; -20°C
	40	40	J/cm ² ; 20°C

Component Elements Properties	Metric	English	Comments
Boron, B	0.0030 %	0.0030 %	
Carbon, C	0.20 - 0.25 %	0.20 - 0.25 %	
Chromium, Cr	0.15 - 0.25 %	0.15 - 0.25 %	
Iron, Fe	98 %	98 %	As Remainder
Manganese, Mn	0.70 - 1.0 %	0.70 - 1.0 %	
Phosphorous, P	<= 0.030 %	<= 0.030 %	
Silicon, Si	0.20 - 0.35 %	0.20 - 0.35 %	
Sulfur, S	<= 0.025 %	<= 0.025 %	

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