

SSAB Tunplatt Domex® 044 BOR Water 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-044-BOR-Water-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	540	540	HV ₁₀ ; approximate
Tensile Strength, Ultimate	1720 MPa	249000 psi	
Tensile Strength, Yield	1200 MPa	174000 psi	
Elongation at Break	10 %	10 %	A ₅
Impact	15	15	J/cm ² ; -20°C
	25	25	J/cm ² ; 20°C

Component Elements Properties	Metric	English	Comments
Boron, B	0.0030 %	0.0030 %	
Carbon, C	0.25 - 0.30 %	0.25 - 0.30 %	
Chromium, Cr	0.40 - 0.60 %	0.40 - 0.60 %	
Iron, Fe	97 %	97 %	As Remainder
Manganese, Mn	1.0 - 1.3 %	1.0 - 1.3 %	
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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