

SSAB Tunnplat Domex® 044 BOR Rolled Boron Steel

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

Material Notes:

Domex® is the brand name of hot rolled products from SSAB Tunnplat. 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 Tunnplat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SSAB-Tunnplat-Domex-044-BOR-Rolled-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	180	180	HV ₁₀ ; approximate
Tensile Strength, Ultimate	620 MPa	89900 psi	
Tensile Strength, Yield	380 MPa	55100 psi	
Elongation at Break	24 %	24 %	A ₅

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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