

## SSAB Tunnplat Domex® 034 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 Tunnplat. Domex® cold-forming steels are modern structural steels. General use of Domex® high strength steels offers a number of benefits compared to ordinary structural steels: Lower weight, Simpler production, Lower creep rate, Longer useful life, Higher load-bearing capacity, Lower transport costs, Reduced stocks, Lower overall cost. Data provided by SSAB Tunnplat.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SSAB-Tunnplat-Domex-034-BOR-Oil-quenched-Boron-Steel.php](http://www.lookpolymers.com/polymer_SSAB-Tunnplat-Domex-034-BOR-Oil-quenched-Boron-Steel.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	480	480	HV <sub>10</sub> ; approximate
Tensile Strength, Ultimate	1570 MPa	228000 psi	
Tensile Strength, Yield	1030 MPa	149000 psi	
Elongation at Break	10 %	10 %	A <sub>5</sub>
Impact	20	20	J/cm <sup>2</sup> ; -20°C
	30	30	J/cm <sup>2</sup> ; 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	0.15 - 0.25 %	0.15 - 0.25 %	
Iron, Fe	98 %	98 %	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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