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High Strength Steel

Weldox 900 is a general structural steel with a minimum yield strength of 900 MPa. Weldox 900 meets the requirements on the corresponding steel grades and qualities according to EN 10025.

Applications	Loa	Load carrying structures having very high demands on low weight.													
Designation	Weldox 900D with guaranteed impact toughness at –20° C (–4°F). Corresponds to S890Q Weldox 900E with guaranteed impact toughness at –40° C (–40°F). Corresponds to S890QL Weldox 900F with guaranteed impact toughness at –60° C (–76°F). Corresponds to S890QL1														
Chemical composition (ladle analysis)	C* max %	Si* max %	Mn* max %	P max %	S max %	B* max %	Nb* max %	Cr* max %	V* max %	Cu max %	Ti* max %	Al* total min %	Mo* max %	Ni max %	N max %
	0,200,501,600,0200,0100,0050,040,700,060,100,040,0180,700,10*Intentional alloying elements. The steel is grain-refinedPlate thicknessCEVCETTypical values%%8 mm0,550,3620 mm0,550,3660 mm0,550,36							0,010							
Mechanical properties	Plate thickness mm 4,0 - 53,0 53,1- 80,0 ¹⁾ For transverse tes ²⁾ 1 MPa = 1 N/mm ²				Tensile strength ¹⁾ R _m MPa ²⁾ 940-1100 880-1100		Elong A ₅ mir % 12 12	ation ¹⁾ 1							





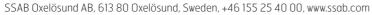
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Impact properties	Steel grade and quality Weldox 900 D Weldox 900 E Weldox 900 F ¹⁾ Unless otherwise agreed, trans ²⁾ For plate thicknesses less that is then proportional to the cros	n 12 mm, subsize Charpy V-sp								
Testing	Testing according to EN 10025.									
Delivery condition	Q Quenched and tempered as	per EN 10025-6								
Dimensions	Weldox 900 is supplied in plate thicknesses of 4-80 mm ".									
	More detailed information on dir Weldox, Hardox, Armox and Tool ")Other thicknesses after special	ox-UK.	rochure 41-General Product Information							
Tolerances	- All plates are produced with AccuRollTech™ thickness precision guarantee.									
	AccuRollTech ^{TM} meets the requirements of EN 10 029, but offers more narrow tolerances.									
	- Tolerances on flatness according to Class N (Normal tolerances).									
	More detailed information is given in our brochure 41-General Product Information Weldox, Hardox, Armox and Toolox-UK as well as at www.weldox.com.									
Surface condition	According to EN 10163-2, Class	A, Subclass 1 (repair by weldin	ng is allowed).							
General technical delivery requirements	According to our brochure 41-General Product Information Weldox, Hardox, Armox and Toolox-UK.									
Heat treatment and fabrication	Weldox 900 has obtained its mechanical properties by a quenching and tempering process.									
	Weldox 900 is not suited for applications requiring hot working at temperatures above 550°C since the material may then lose its guaranteed properties.									
	For information concerning welding and fabrication, see our brochures on www.weldox.com or consult our Technical Customer Service.									
	Appropriate health and safety precautions must be taken when welding, cutting, grinding or otherwise working on the product. Grinding, especially of primer coated plates, may produce dust with high particle concentration.									

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