



HARDOX TUBE 400



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General Product Description

Abrasion-resistant tubes for extreme performance and extended service life

Hardox® Tube 400, as hard and tough as our wear plates, offer outstanding performance when you need both high wear resistance and a lighter product.

Available dimensions

T: 3- 6 mm

L: Up to 10000 mm

D: Circular 76- 219 mm

Circular

Diameter	[Missing]	[Missing]	[Missing]	[Missing]
76.1 mm	x			
88.9 mm	x	x		
101.6 mm		x		
108 mm		x		
114.3 mm		x		
127 mm		x		
133 mm		x		
139 mm		x	x	x
159 mm			x	x
168.3 mm			x	x
193.7 mm			x	x
219.1 mm				x

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Mechanical Properties

Thickness (mm)	Hardness HBW ¹⁾ (HBW)
3.0- 6.0	360- 440

¹⁾ Brinell hardness test, HBW, according to EN ISO 6506-1.

Chemical Composition

Thickness (mm)	C (max %)	Si (max %)	Mn (max %)	P (max %)	S (max %)	Cr (max %)	Ni (max %)	Mo (max %)	B (max %)
3.0- 6.0	0.30	0.70	1.60	0.020	0.010	1.50	1.5	0.60	0.005

The steel is grain refined.

Tolerances

Characteristic	Circular wear tube Tolerances based on the requirements of EN 10219
Outside diameter (D) ¹⁾	±1%, with a minimum of ±0.5 mm and a maximum of ±10 mm
Out-of-roundness	2%, when D/T ≤ 100
Thickness (T)	±10% when T ≤ 5 mm and ±0.5 mm when T > 5 mm
Straightness	0.20% of total length and 3 mm over any 1 m length
Mass per unit length	Individual tube: ±6%
Standard length	≥ 6000 mm: 0/+50 mm
Exact length	Agreed at the time of enquiry and order

¹⁾ All external dimensions are measured with a minimum distance from the end of the section. The distance must be a minimum of 100 mm.

Delivery Conditions

The delivery condition is Q (Quenched).

The Hardox Tube 400 is delivered in as-rolled condition lightly oiled.

Delivery requirements can be found in SSAB's brochure 41-General product information Strenx, Hardox, ArmoX and Toolox-UK or at www.ssab.com.

Fabrication and Other Recommendations

Recommendations can be found in SSAB's brochures at www.hardox.com or consult Tech Support, techsupport@ssab.com.

Hardox Tube 400 has obtained its mechanical properties by quenching and after roll forming and plasma welding. The properties of the delivery condition cannot be retained after exposure to service or preheating temperatures in excess of 250°C. Hardox Tube 500 is not intended for further heat treatment.

Appropriate health and safety precautions must be taken when welding, cutting, grinding or otherwise working on this product.

Grinding, especially of primer coated plates, may produce dust with a high particle concentration.

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