



E STEEL SDN BHD (891338-A)

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HARDOX 450 is an abrasion resistant plate with a hardness of 450 HBW, intended for applications where demands are imposed on abrasion resistance in combination with good cold bending properties. HARDOX 450 offers very good weldability

Applications Dumper bodies, containers, crushers, sieves, feeders, measuring pockets, skips, cutting edges, conveyors, buckets, knives, gears, sprockets, etc.

Hardness : 425-475 HBW

Mechanical Properties

Yield strength : 175 KSI

Tensile strength : 205 KSI

Elongation : 14%

Impact Properties

Testing temperature :- 40 °C

Impact energy Charpy-V, longitudinal : Ft-lbs 30 , 40(J)

Heat Treatment and Fabrication

HARDOX 450 has obtained its mechanical properties by quenching and when necessary by means of subsequent tempering. The properties of the delivery condition can not be retained after exposed to service or preheating temperatures above 480°F (250°C). HARDOX 450 is not intended for further heat treatment. For information concerning welding and fabrication, see our brochures on www.hardox.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.

MECHANICAL PROPERTIES		Typical values for 20 mm plate thickness		
Yield Strength (Mpa)		1200		
Tensile Strength (Mpa)		1400		
Elongation (%)		10		
HARDNESS		TYPICAL		425 – 475 HBW
AVAILABLE THICKNESS		3.0mm – 120mm		

Values are to be used as a guide only. Actual values of specific plates can be obtained