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Nazwa gatunku: Hardox 500

Nazwa: WEAR-RESISTANT STEEL

APPLICATION

Steel susceptible to mining and earthmoving machinery, crushers, breakers, cutting edges, industrial trucks, conveyors etc.

TECHNOLOGICAL INFORMATION

The steel has good-weldable properties and can be welded many ways.

CHEMICAL COMPOSITION:

C	Si	Mn	P	S	Cr	Ni	Mo	Ti	B	Al	Cu
Max. 0,38	Max. 0,7	Max. 1,7	Max. 0,02	Max. 0,01	Max. 1,2	Max. 1,0	Max. 0,65	Max. 0,05	Max. 0,006	Max. 0,01	Max. 0,05

MECHANICAL PROPERTIES:

Property	Symbol	Value
Hardness	HBW	≥ 470
Ultimate tensile strength, R_m	MPa	≥ 1600
Yield stress, R_e ($R_{p0.2}$)	MPa	≥ 1250
Elongation, A	%	≥ 8
Impact energy, KV	J	30

PHYSICAL PROPERTIES:

Property	Unit	Value
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Density (ρ)	$\text{g}\cdot\text{cm}^{-3}$	7.85
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