

HARDFIELD 400



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NAZWA GATUNKU: HARDFIELD 400

NAZWA: WEAR-RESISTANT STEEL

APPLICATION

Steel susceptible to elevated wear resistance and high toughness, good cold formability and very good weldability. This steel can be applied in mining and earthmoving machinery, skips, crushers, pipe systems, breakers, knives, cutting edges, industrial trucks, conveyors.

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. 0,3	Max. 0,7	Max. 1,6	Max. 0,025	Max. 0,01	Max. 1,0	Max. 0,7	Max. 0,5	Max. 0,05	Max 0,006	Max. 0,01	Max. 0,05

MECHANICAL PROPERTIES:

Property	Symbol	Value
Hardness	HBW	370 - 430
Ultimate tensile strength, R_{m0}	MPa	≥ 1250
Yield stress, R_s ($R_{p0.2}$)	MPa	≥ 1000
Elongation, A	%	≥ 10
Impact energy, KV	J	30

PHYSICAL PROPERTIES:

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