

RAEX500®

WEAR RESISTANT STEEL

APPLICATION

Buckets and containers, loading and transport systems in mines, working edges of earthmoving machines, excavator buckets, crushers, consumable parts of mining machinery, consumable parts of concrete mixers and woodworking machines, platform structures, feeders, hoppers, silos, aggregate and ore transport systems, tipper bodies.

CHEMICAL COMPOSITION

Chemical composition for plate (in weight %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	B
min	max.	max.	max.	max.	max.	max.	max.	max.	max.
max.	0.30	0.50	1.70	0.025	0.015	1.50	1.00	0.25	0.005

Chemical composition for sheet (in weight %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	B
min	max.	max.	max.	max.	max.	max.	max.	max.	max.
max.	0.27	0.50	1.60	0.025	0.01	1.20	1.00	0.25	0.005

TREATMENT

Tempering	150-200 °C
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MECHANICAL PROPERTIES

Delivery condition	Quenched
Impact properties	30 J/ -40°C
Surface properties	According to EN 10 163-2 Class A, Subclass 3.
Bending	Minimum inner bending radii for a 90° bend, $t \leq 20$ mm are sheets and plates, $5 \times t$ (transverse) and $6 \times t$ (longitudinal)
Flatness	For plate and sheet the flatness deviation is max 6mm/m