

# RAEX450®

## 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.    | 0.26 | 0.80 | 1.70 | 0.025 | 0.015 | 1.50 | 1.00 | 0.50 | 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.    | 0.23 | 0.50 | 1.60 | 0.025 | 0.01 | 1.20 | 1.00 | 0.25 | 0.005 |

## TREATMENT

|           |            |
|-----------|------------|
| Tempering | 150-200 °C |
|-----------|------------|

## 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 are: Sheets, 3 x t (transverse) and 4 x t (longitudinal). Plates t ≤ 20 mm, 4 x t (transverse) and 5 x t (longitudinal) |
| Flatness           | For plate and sheet the flatness deviation is max 6mm/m                                                                                                            |