WEAR RESISTANT STEEL Advanced Materials. Engineered for Performance.

Hardox 450

Wear Resistant Steel | Brand: SSAB | Nominal Hardness: 450 HBW

The most versatile abrasion resistant plate in the range. 450 HBW delivers roughly 2.5 times the service life of mild steel while remaining straightforward to bend, cut and weld in a normal workshop.



Stock status: Ex-stock Dubai - Typical lead time: 2 - 3 working days ex Dubai

Key features

- 2.5x the wear life of mild steel
- Guaranteed bending and welding properties
- Impact toughness retained down to -40 C

Available forms & sizes

Form	Size range
Plates	3 - 130 mm thk, up to 3350 mm wide
Blocks & Profiles	Profile cut parts and liners to drawing

Chemical composition (%)

Element	Min	Max
C	-	0.19
Si	-	0.70
Mn	-	1.60
Cr	-	0.50
B	-	0.005

Mechanical properties

Property	Value	Unit
Hardness	425 - 475	HBW
Yield Strength (typical)	1200	MPa
Tensile Strength (typical)	1400	MPa
Impact Energy at -40 C	30	J

Physical properties

Property	Value	Unit
Density	7.85	g/cm3

Standards

SSAB Hardox guarantee, EN 10029

Equivalent grades

Dillidur 400V, Quard 450, XAR 450, Abrex 450

Industries served

Mining, Quarrying, Construction, Recycling

Typical applications

- Dump truck and tipper bodies
- Excavator buckets and wear edges
- Crusher liners and chutes
- Screening plant wear parts

Live datasheet