

# 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.

## 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

## Typical Applications



# AXICOR DWC LLC

Technical Data Sheet

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

## Industries Served

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Mining, Quarrying, Construction, Recycling