

PRODUCT DESCRIPTION

AB 200 is a composite wear plate with excellent performance against severe abrasive wear with moderate resistance to impact.

Our fully automated production line of special metal arc welding method and our reliable quality control procedures secure a final product with homogenous chemical analysis and hardness.

AB 200 ADVANTAGES

- Superior wear resistance
- Flat and smooth as welded surface
- Uniform hardness and chemical composition
- Heat resistance (Hardness of HRC 60±2 up to 400 °C)
- Easily welded due to the mild steel backing plate
- Cold formed to shape
- Internal rolling diameter down to 250mm depending on total thickness
- Very good fusion to the base plate
- Low dilution of the alloy
- Service life 6 to 12 times higher compared to mild steel depending on the application

INDUSTRIES & APPLICATIONS

Industries: Mining, Cement, Steel, Power Generation, Glass, Wood, Paper, Recycling.

Applications: Pipes, Concrete Mixers, Mill Linings, Separators, Screens, Excavator Bucket and Bucket Wheel Linings, Clinker and Dust Ducts, Fans and Fan Housings, Chutes, Truck Liners, Screw Conveyors, Agricultural Equipment.

- **Overlay composition**
Chromium rich, high carbon and Manganese alloy; C-Cr-Mn-B-Fe
- **Base plate materials**
All types of weldable structural steels including stainless steel
- **Microstructure**
Chromium rich Primary Carbides M_7C_3 dispersed in an austenitic matrix. Surface fraction 45-50%
- **Dimensions & Thicknesses**



Standard Format

Standard plate sizes available in stock

Base Plate	Clad Area
1.500 x 3.000 mm	1.400 x 2.950 mm
1.250 x 2.500 mm	1.150 x 2.450 mm

Special Format

Base Plate	Clad Area
2.000 x 4.000 mm	1.900 x 3.950 mm
1.000 x 2.000 mm	900 x 1.950 mm

ABRAPLATE AB 200 Standard THICKNESS

Base Plate Thickness mm	Cladding Thickness mm
3	3 to 4
5	3 to 4
6	3 to 6
8	3 to 10
10	3 to 17
12	3 to 18

Overlay thickness ≤ 6 mm: one layer,
>6mm: two layers
>12mm: three layers

Minimum overlay applied: 3mm

Maximum overlay applied:
18mm in 3 layers

*customized base plate
thicknesses upon request

- **Tolerances**
 - Thickness Tolerance: +1 mm, -0mm
 - Flatness Tolerance: ±3 mm for length over 3000mm
- **Fabricating**
 - Cutting methods: Water jet, Plasma & Laser cutting (Oxy fuel is not effective)
 - Bending with the use of rollers or press brake equipment
 - Welding method as for conventional steel due to ABRAPLATE mild steel base plate
 - Fixing and bolting using machined inserts, studs, or plug welding
 - Machining and drilling is not possible