



DURAPLATE HARDLITE® D34T

HARDLITE™ is an ultra-thin overlay plate created from drawn cords of chrome carbides, with a hardness ranging from 64 to 66 HRC and hard phases ranging between 1300 and 1650 HV.

It withstands extremely severe abrasion up to temperatures of 350°C.

Main applications Cyclones, separators, fans, pipelines

Hardness Primary chrome carbides with a hardness of 1300 to 1650 HV.

Mechanical properties
Typical value, S355 The overlay itself does not have specific mechanical properties, but the base material to which it is welded exhibits suitable characteristics. The supporting metal can be S235, S355, HLE, Stainless Steel, or DURSTEEL 410, with the following mechanical properties:

Rp 0.2 (Yield Strength): 355 MPa
Rm (Tensile Strength): 510 MPa
A% (Elongation): 22%

Chemical composition
Typical values

| C (Max %) | Si (Max %) | Mn (Max %) | Cr (Max %) | B (Max %) | Fe |
|--------------|---------------|---------------|---------------|--------------|-------|
| 5 | 1.5 | 1.5 | 27 | 0.5 | Reste |

Dimensions Format : 2000x1000 with a usable surface of 1950x950 = 1.85m².

Thicknesses Standard : 2+2, 2+3 et 3+2

Spécificité HARDLITE™ is a patented ultra-thin overlay plate. The manufacturing process enables achieving an extreme hardness of 64 to 66 HRC.



Implementation

HARDLITE™ exhibits excellent roll forming, crimping, and bending capabilities. It can be roll-formed to a diameter of 300mm with overlay either on the inside or outside. It also allows for hot bending.

Weldability

Assembly with our EASYCOR 70M or CORINOX 307 wire and weld protection using our DURCOR31W0 wire.

For all applications requiring a recharged plate with resistance to severe abrasion and significant impacts, we recommend using our DURAPLATE D38T overlay plate (refer to the technical datasheet on our website www.wa-produr.com).