



DURAPLATE® D38T

DURAPLATE D38T is an overlay plate produced from drawn cords of titanium carbides, exhibiting a hardness ranging from 52 to 55 HRC. The hard phases have a hardness of 3200 HV.

It withstands severe abrasion and significant impacts up to temperatures of 350°C.

Main applications Shields, scalpels, screens, tunnel boring machines, cutting casings, pick blades, and all fabricated parts, including pipelines.

Hardness Titanium carbides with a hardness of 3200 HV.

Mechanical properties
Typical value, S355 The overlay itself does not have specific mechanical properties, but the support on which it is welded possesses 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 %)	Mo (Max %)	Ti (Max %)	V (Max %)	Fe
1.8	0.7	1.2	6.5	0.8	5	0.2	Reste

Dimensions Format L: 3000x1500 with a usable surface of 2900x1400 = 4.06m²
Format XL: 3000x2000 with a usable surface of 2900x1900 = 5.51m²

The provided dimensions represent the completely recharged part. Custom sizes are available upon request..

Thicknesses Standard : 8+4,10+4, 12+4, 10+8 et 12+8



Specificity

The drawn cord plates exhibit unique characteristics in the market. Hardness, chemical composition, and microstructure remain consistent throughout the entire plate. Therefore, they can be oriented in any direction without concern for variations in behavior.

DURAPLATE D38T is the only product of its kind available in the market.

Implementation

DURAPLATE D38T is challenging to bend and roll, making it more suitable for use in shielding applications. It is easily adaptable for the fabrication of welded mechanical parts.

Weldability

Assembly with our EASYCOR 70M or CORINOX 307 wire and weld protection using our DURCOR38W0 wire.

For all applications requiring an overlay plate resistant to severe abrasion and moderate impacts, we recommend using our DURAPLATE D31T overlay plate (refer to the technical datasheet on our website www.wa-produr.com).