

DURAPLATE HiSPEED®

Duraplate HiSPEED is anti-wear plate comprised of a structural steel S235 base plate and an anti-wear coating applied through an advanced welding process.

The reclamation composed of 30 to 40% chrome carbides within an eutectic matrix, exhibiting a hardness of 59 to 62HRC, with hard phases ranging between 1200 and 1800HV.

It withstands highly severe abrasion conditions even at temperatures up to 500°C.

Main applications

Armor plating, deflectors, screens, sliding plates, and bucket bottoms

Hardness

Primary chrome carbides ranging from 1200 to 1800 HV.

Mechanical properties	The cladding does not possess independent mechanical characteristics, but the substrate onto which it is welded exhibits suitable properties: Support metal is S235.	
	Rp0.2	235 MPa
	Rm	360-510 MPa
	A%	26

Chemical composition

Typical value

DURAPLATE HiSPEED®	C	Cr	Mn	Mo	Ti	B
%	2-5	18-35	<1.5	<1.5	<1.5	<0.6

Dimensions

Usable Area 3000x1000 = 3.0 m²

The indicated dimensions represent the fully coated/covered portion...

Specificity

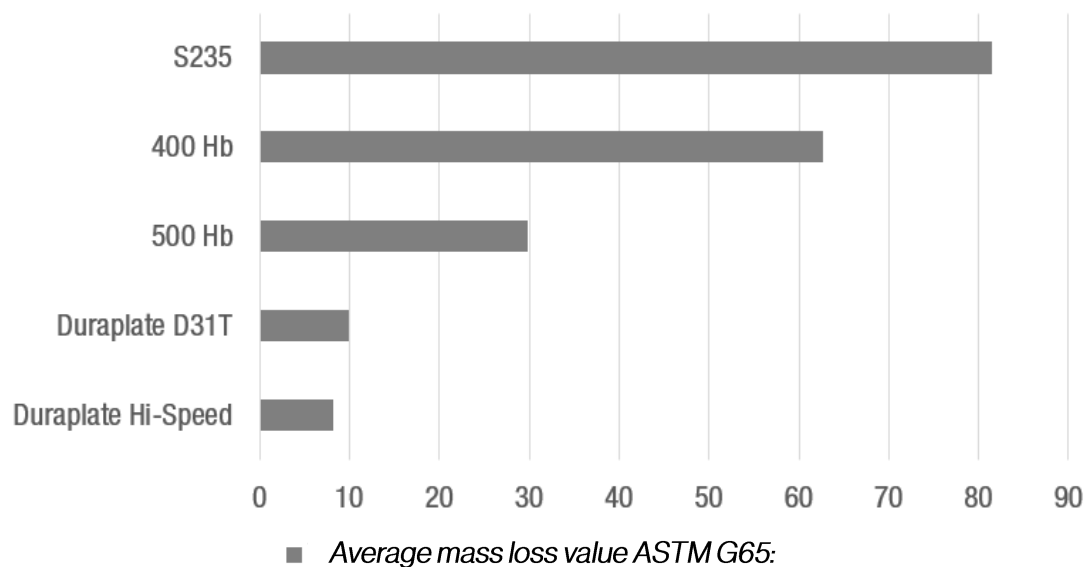
Wear plate composed of a structural steel S235 base plate and an wear resistant layer applied through an advanced welding process.

This method enables the attainment of a completely smooth wear resistant layer, free of residual stress, and with a low friction coefficient.

The cladding is made in a single pass while preventing mineral and gas inclusions.

The absence of welding beads provides multidirectional wear resistant properties.

Very low dilution within the thickness resulting in uniform hardness and consistent wear resistance throughout the plate's lifespan.



Implementation

Plasma cutting using standard parameters.

Bending and rolling : The cladding must always be on the inside of the bend radius, as there's a risk of tensile cracking when bending on the outside of the bend radius.

Minimum rolling radius : 15 times the plate thickness with the cladding on the inside of the bend radius.

Assembly using our CORINOX 307 wire for root passes, followed by possible final passes using our EASYCOR 70M wire.

Welds should be protected using our DURCOR 31WO wire.

For any additional information, we recommend visiting our website at www.wa-produr.com.