



DURSTEEL® 410

DURSTEEL 410 is a wear resistant hardened steel featuring a nominal hardness of 400 HB.

It resists to severe wear conditions and its high limit of elasticity allows it to absorb significant impacts without deformation.

Main applications Armouring, wear blades, buckets, gondola cars, hoppers, chutes, hammers, cutter blades, skips, bulldozers, worm screws, screens, grippers, etc.

Hardness 370-430 HB (90% of batches between 390 and 410 HB)

Mechanical properties
 Typical values
 Thickness 20 mm

Rp 0.2: 1100 MPa
 Rm: 1250 MPa
 A%: 10

Resilience
 Typical values
 Thickness 20 mm

Impact energy 50j at -40°C

Chemical composition

Typical values

Thickness. (mm)	C (Max %)	Si (Max %)	Mn (Max %)	P (Max %)	S (Max %)	Cr (Max %)	Ni (Max %)	Mo (Max %)	B (Max %)
2-8	0.16	0.7	1.55	0.025	0.015	0.5	0.25	0.25	0.005
8-40	0.18	0.7	1.55	0.025	0.015	0.5	0.25	0.25	0.005
40-80	0.22	0.7	1.55	0.025	0.015	1	0.5	0.5	0.005
80 et +	0.23	0.7	1.55	0.025	0.015	1.5	0.5	0.5	0.005

CEV

Valeur Typique

Thickness. (mm)	CEV	CET
2-8	0.45	0.37
8-40	0.47	0.39
40-80	0.61	0.49
80 et +	0.66	0.52

Dimensions Available in Coils: From 2 to 6 mm
 Available in Quarto: From 4 to 120 mm

**Tolerances**

Compliant with EN 10 029 for QUARTO sheets and 10 051 for coils
 – Shape, length and thickness tolerances. Class A
 – Flatness tolerances as per Class N.

Surface condition

Compliant with EN 10 163-2
 – Surface requirements as per Class A.

Implementation

DURSTEEL 410 has an excellent capacity for rolling, stretching and bending.

Dursteel 410 maintains its properties up to a temperature of 250°C.

The use of Dursteel 410 for heat treatments or hot galvanising is not recommended.

For any use of a wear resistant steel at higher temperature, we recommend you to use our CREUSABRO (refer to datasheet at www.wa-produr.com)

Weldability

DURSTEEL 410 is a hardened steel with a low carbon equivalent that allows excellent weldability.

Température de préchauffage et entre passes minimales recommandées en fonction de l'épaisseur en mm :

0-10 mm	10-20 mm	20-45 mm	45-50 mm	50-80 mm	80-120 mm
		75°	100°	175°	200°

The recommended WA PRODUR filler metals for welding DURSTEEL 410 are as follows:

EASYCOR 70M : Copper tubular cored wire without slag for horizontal butt welding

EASYCOR 700M : Copper tubular cored wire with high limit of elasticity for horizontal butt welding

CORINOX 307G : Stainless steel cored wire for heterogeneous assembly

CORINOX 312G : Stainless steel cored wire with high mechanical properties for heterogeneous assembly

All technical data sheets for the wires in the WA PRODUR range are available on our website: www.wa-produr.com.