



## DURSTEEL® 460

**DURSTEEL 460** is a wear resistant hardened steel featuring a nominal hardness of 450 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** 420-480 HB

**Mechanical properties**  
 Typical values  
 Thickness 20 mm

Rp 0.2: 1250 MPa  
 Rm: 1400 MPa  
 A%: 10

**Resilience**  
 Typical values  
 Thickness 20 mm

Impact energy 35j at -40°C

### Composition chimique

Typical values

Thickness. (mm)	C (Max %)	Si (Max %)	Mn (Max %)	P (Max %)	S (Max %)	Cr (Max %)	Ni (Max %)	Mo (Max %)	B (Max %)
3-8	0.2	0.7	1.55	0.025	0.015	0.25	0.2	0.25	0.005
8-20	0.2	0.7	1.55	0.025	0.015	0.25	0.2	0.25	0.005
20-40	0.22	0.7	1.55	0.025	0.015	1.0	0.2	0.3	0.005

### CEV

Valeur Typique

Thickness. (mm)	CEV	CET
3-8	0.45	0.32
8-20	0.50	0.34
20-40	0.55	0.36

**Dimensions** Available in coils : From 3 to 6 mm  
 Available in Quarto : From 6 to 30 mm (30 to 80 mm on request)

**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 460 has an excellent capacity for rolling, stretching and bending.

DURSTEEL 460 maintains its properties up to a temperature of 250°C.

The use of DURSTEEL 460 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](http://www.wa-produr.com))

**Weldability**

DURSTEEL 460 is a hardened steel with low carbon equivalent that allows a good weldability. However, welding precautions are required. Preheating is recommended for thicknesses equal to or greater than 20mm.

Preheating temperature and recommended minimum inter-pass temperature based on the thickness in millimeters:

0-10 mm	10-20 mm	20-40 mm	40-80 mm
		125°	150°

The recommended WA PRODUR filler metals for welding DURSTEEL 460 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](http://www.wa-produr.com).