Corus Long Products

ABRAZO® 400 Data Sheet

ABRAZO® 400 is a roller quenched steel, combining high strength, toughness, good weldability, and excellent wear resistance.

Chemical composition

Thickness* (mm)		C (%)	Si (%)	Mn (%)	S (%)	P (%)	Cr (%)	Mo (%)	Nb (%)	V (%)	Ni (%)	Cu (%)	B (%)
8 ≤ t ≤ 80	max.	0.20	0.50	1.60	0.010	0.025	1.00	0.70	0.06	0.10	1.50	0.40	0.004

* Other gauges available by agreement.

ABRAZO® 400 is offered with the following CEV:

Thickness (mm)	Maximum ladle CEV* (%)
8 ≤ t ≤ 19	0.43
19 < t ≤ 40	0.53
40 < t ≤ 80	0.59

* Other maximum CEV available by agreement.

Mechanical properties

ABRAZO® 400 is routinely subject to hardness testing only. Any additional testing is by special arrangement.

Thickness (mm)	Minimum hardness (H_{BN})	Typical hardness (H_{BN})	Typical yield strength (MPa)	Typical tensile strength (MPa)	Typical elongation on 50mm gauge length (%)
8 ≤ t ≤ 19	360	400	1050	1200	14
19 < t ≤ 40	360	400	1100	1250	14
40 < t ≤ 80	360	400	1000	1150	14

Testing in accordance with EN10002, EN10045 and BS EN ISO 6506.

Dimensions
ABRAZO® 400 is available in thicknesses 8mm to 80mm. Width and length availability is given in table 4 of the Plate products range of sizes brochure.

Tolerances
The manufacturing tolerances for ABRAZO® 400 are in compliance with EN10029:1991.

Surface quality of ABRAZO® 400 is compliant with EN10163:2004 class A subclass 1.

Other tolerances are available by agreement.

Supply Condition
Quenched or Quenched and Tempered at the discretion of the supplier.

Fabrication and Welding
ABRAZO® 400 can be readily processed following the guidance available in the ABRAZO® Fabrication guide.

Not suitable for any hot forming operations and should not be heated above 200°C.

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