

ABRAMAX MU

ABRASION RESISTANT PLATE
THERMO-MECHANICALLY ROLLED
OR NORMALIZED

Chemical composition

C	S	P	Si	Mn	Cr	Mo
≤ 0.20	≤ 0.02	≤ 0.02	≤ 1	≤ 1.60	≤ 1.30	≤ 0.20

Mechanical properties in delivery condition

— Thicknesses range 3 to 60 mm.
Indicative hardness value for 15 mm is 330 HB.
Guaranteed tensile values.

— **Delivery conditions:**
Thermo-mechanically rolled or normalized depending on thickness.

— **Size range:**
– Width 1000 to 3000 mm;
– Length up to 6000 mm.

Thickness (mm)	UTS (MPa)	Ys (MPa)	E (%)
3-12	≥ 1050	≥ 730	≥ 12
3-40	≥ 950	≥ 650	≥ 12
41-60	≥ 900	≥ 600	≥ 12

Guaranteed impact values:

- KCV Long -20 °C ≤ 15 J / cm²;
- KCV Long -40 °C ≤ 10 J / cm².

These characteristics are shown on the quality certificate per thickness.

Processing information

— **Flame cutting:**
All conventional methods can be used i.e. oxy-gas, plasma and laser.

— **Shearing:**
Not recommended

— **Machining:**
The chemical composition and homogeneous structure of this grade of steel enables it to be easily machined, with machining productivity better than that of normalized 300 HB.

— **Rolling:**
Minimum internal diameter 20 x th.

— **Cold bending:**

Thickness (mm)	Internal minimum radius	die opening minimum
≤ 8	3 x th	10 x th
> 8	4 x th	12 x th

— **Welding (in accordance with EN:1011):**
Readily weldable under normal condition using MMA, MIG and MAG without preheating up to combine thickness 60 mm, provided low hydrogen controlled electrodes are used.

General note

— If further informations are required, please request a copy of our technical guide.

Contact

A. Arley Road, Saltley, Birmingham B8 1BB, United Kingdom
T. +44 121 326 3100 — F. +44 121 326 3105
E. a.uk@abraservice.com — W. www.abraservice.com/uk/