
IMEX 501

THERMO - MECHANICALLY ROLLED HIGH YIELD STRENGTH STEEL

— Sheets, obtained per strip mill rolling process.

— **International standard:**
S500 MC according to EN 10149-2.

Chemical composition

C	Mn	Si	Nb	Ti	S	P	V	Al
≤ 0.12	≤ 1.70	≤ 0.50	≤ 0.09	≤ 0.15	≤ 0.015	≤ 0.025	≤ 0.20	≤ 0.015

The level of Nb + V + Ti must not exceed 0,22 %

Mechanical properties in delivery condition

Thickness (mm)	Ys (MPa)	UTS (MPa)	E (%)	Min. bending Ø at 180° (transversal)
3 - 16	500	550 - 700	14	1.5 x th

— **Field of application:**

High yield steel from wide strip mill are particularly suited to cold forming and welding due to thermomechanical rolling. They can be used in many industries that produce parts by forming and stamping (e.g. side-members, crosspieces, reinforcing elements, safety parts, ecc).

— **Delivery conditions:** Thermo-mechanically rolled.

— **Thickness range:** 3 - 12 mm.

— **Size range:** 1500 × 3000 mm.

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/