

STEEL PLATES FROM HOT ROLLED COILS

Qualità: S500MC

Micro Alloyed Steel

Grade **S500MC**

Norm **EN10149-2**

W. Nr. **1.0984**

Rolling state **AR- As rolled**

Description High strength steel for cold-forming, thermomechanically-rolled. This steel grade offers excellent bending, flanging, cold-bordering and folding properties in both longitudinal and transverse direction

Applications Cold formed parts for all type of vehicles, industrial tanks, containers and agricultural equipment

Standard coils' stock range

	1250	1500
2	•	•
3		•
4		•
5		•
6		•
7		•
8		•
10		•
12		•

Dimensions other than the ones listed here can be sourced on agreement.

At times, some of the dimensions listed here might be unavailable: please make sure to get in touch with our sales department for a real-time update about the actual stock availability.

Chemical composition According to UNI EN 10025

Element	Al	B	C	Ceq	Cr	Cu	Mo	Mn	N
Min.	0,015								
Max			0,12					1,70	

Element	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max		0,09	0,025	0,015	0,50		0,15	0,2	

Mechanical properties According to UNI EN 10025

Nominal Thickness (mm)	-
Yield Strenght (MPa)	≥ 500

Nominal Thickness (mm)	-
Tensile Strenght (MPa)	550 – 770

Nominal Thickness (mm)	< 3	≥ 3
Elongation A80%	≥ 12	
Elongation A5%	≥ 14	

Temperature (°C)	-20°C (where reported in the MTC)	
Notch Impact Energy (J)	≥ 40	

Tolerances

Dimensional Tolerances

UNI EN 10051

Surface Status

UNI EN 10163-2

Equivalences

W. Nr.	Germany SEW	France AFNOR
1.0984	QStE500TM	E490D

Certifications

- EN10204-3.1

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