

The **steel grade** of the **S550mc steel plate/sheet** used for cold-formed components of the most varied designs. Their fields of application include the manufacture of: Longitudinal beams Frames **Cold-pressed parts Cold-rolled sections** Structural pipes.

The **low-perlite steel grades** offer excellent bending, flanging, cold-bordering and folding properties in both longitudinal and transverse direction. The bending radii specified below should be observed as minimum values.

**Comparison of steel grades**

<b>S550MC</b>	SEW 092	<a href="#">QStE 550 TM</a>
	<b>NFA 36-231</b>	<a href="#">E 560 D</a>
	<b>UNI 8890</b>	<a href="#">Fe E 560 TM</a>
	<b>ASTM A 1011/SAE J 1392</b>	HSLAS-F Gr. 80 [550]/080 XLK
	<b>Salzgitter Flachsta</b>	PSQ 55
	<b>hl-FK</b>	<b>D</b>
	<b>MATERIAL # 1.0986</b>	

**S550MC steel plate Chemical analysis -% by mass\***

	C	Si	Mn	P	S <sup>1)</sup>	Al <sub>tota</sub>	Mo	Ti	B
<a href="#">Chemical analysis-</a>	m	m	ma	max.	max.	min.	ma	ma	m
% by mass*	ax.	ax.	x.				x.	x.	ax
	0,12	0,50	1,80	0,025	0,015	0,015	-	0,15	-

**S550MC steel sheet Mechanical properties**

<b>Mechanical properties</b>	<a href="#">Yield Strength</a>	<a href="#">Tensile Strength</a>	<b>Min. total elongation [%]</b>	<b>Smallest recommended bending radius bending angles ≤ 90</b>		
	R <sub>eH</sub> [N/mm <sup>2</sup> ]	R <sub>m</sub> [N/mm <sup>2</sup> ] transv.		L <sub>0</sub> = 80	L <sub>0</sub> = 5,65	e <sub>1</sub> ) ≤ 3    3 < e <sub>1</sub> ) < 6    e <sub>1</sub> ) > 6

**BEBON international** — We are specialized in hot rolled steel plate/coil.

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S550MC	550	600- 760	mm	$\sqrt{S0}$			
			e2) < 3	e2) $\geq$ 3	1,0 e	1,5e	2,0e
				14			
		12					

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