

**HIGH STRENGTH HOT ROLLED (UNI EN 10149)****MECHANICAL CHARACTERISTICS**

Quality	R <sub>e</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>80</sub> (%)	A <sub>5</sub> (%)	Bend Test 180°
	min	min-max	min		d min
EN10149:97			t<3.0	3.0=t	
S315MC	315	390-510	20	24	0 t
S355MC	355	430-550	19	23	0.5 t
S420MC	420	480-620	16	19	0.5 t
S460MC	460	520-670	14	17	1.0 t
S500MC	500	550-700	12	14	1.0 t
S550MC	550	600-760	12	14	1.5 t
S600MC	600	650-820	11	13	1.5 t
S650MC	650	700-880	10	12	2.0 t
S700MC	700	750-950	10	12	2.0 t
S260NC	260	370-490	24	30	0 t
S315NC	315	430-550	22	27	0.5 t
S355NC	355	470-610	20	25	0.5 t
S420NC	420	530-670	18	23	0.5 t

*note:*

Tensile tests carried out on longitudinal specimens - Bending tests carried out on transverse specimens

t = thickness of the laminate in mm

**HIGH STRENGTH HOT ROLLED (UNI EN 10149)****CHEMICAL COMPOSITION**

Quality	C (%)	Mn(%)	Si (%)	P (%)	S (%)	Nb (%)	Ti (%)	V (%)	Mo (%)	B (%)	Al (%)
EN10149:97	max	max	max	max	max	max	max	max	max	max	min
S315MC	0.12	1.30	0.50	0.025	0.020	0.09	0.15	0.20	-	-	0.015
S355MC	0.12	1.50	0.50	0.025	0.020	0.09	0.15	0.20	-	-	0.015
S420MC	0.12	1.60	0.50	0.025	0.015	0.09	0.15	0.20	-	-	0.015
S460MC	0.12	1.60	0.50	0.025	0.015	0.09	0.15	0.20	-	-	0.015
S500MC	0.12	1.70	0.50	0.025	0.015	0.09	0.15	0.20	-	-	0.015
S550MC	0.12	1.80	0.50	0.025	0.015	0.09	0.15	0.20	-	-	0.015
S600MC	0.12	1.90	0.50	0.025	0.015	0.09	0.22	0.20	0.50	0.005	0.015
S650MC	0.12	2.00	0.50	0.025	0.015	0.09	0.22	0.20	0.50	0.005	0.015
S700MC	0.12	2.10	0.50	0.025	0.015	0.09	0.22	0.20	0.50	0.005	0.015
S260NC	0.16	1.20	0.50	0.025	0.020	0.09	0.15	0.10			0.015
S315NC	0.16	1.40	0.50	0.025	0.020	0.09	0.15	0.10			0.015
S355NC	0.18	1.60	0.50	0.025	0.015	0.09	0.15	0.10			0.015
S420NC	0.20	1.60	0.50	0.025	0.015	0.09	0.15	0.10			0.015