

Offshore structural plates



Quality	S420MLO
Standard	EN 10225-1
Certification	3.2 EN10204
Heattreatment	Thermomechanical rolled

Mechanical properties

Thickness in mm	Min. Yield (Mpa)	Tensile strength (Mpa)	Min. Elongation (%)	Min. Impact Energy (KV J Transverse) -40°
>3 <= 16	420	500 - 660	19	60
>16 <= 25	400	500 - 660	19	60
>25 <= 40	390	500 - 660	19	60
>40 <= 63	380	480 - 640	19	60
>63 <= 80	380	480 - 640	19	60
>80 <= 120	380	480 - 640	19	60

Chemical composition

C/ (mm) max.	C/ (mm) max.	C/ (mm) max.	Si max.	Mn max.	P max.	S max.	Cr max.	Ni max.	Mo max.	N max.	Al tot c max.	Cu max.	Nb max.	Ti max.	V max.	Nb+ V max.	Nb+V+Ti max.
<= 16 mm	>16 <=40 mm	>40 mm															
0.14	0.14	0.14	0.550	1.650	0.020	0.010	0.250	0.700	0.250	0.010	0.015 to 0,055	0.30	0.050	0.025	0.080	0.09	0.11

Maximum

CEV:

PCM:

t <= 75	0.42	0.22
75 < t <= 120	0.42	0.22

Z35 test

t >= 15mm

