

MICROALLOYED ROLLED STEEL FOR COLD FORMING AS PER EN 10149-2

MECHANICAL PROPERTIES

Steel grade	Ultimate strength, MPa (N/mm ²)	Yield strength, MPa (N/mm ²)	Relative elongation, %, max.		Mandrel diameter at 180° bending
			δ ₄	δ ₅	
S315MC	390-510	315	20	24	0a
S355MC	430-550	355	19	23	0.5a
S420MC	480-620	420	16	19	0.5a
S460MC	520-670	460	14	17	1.0a
S500MC	550-700	500	12	14	1.0a
S550MC	600-760	550	12	14	1.5a

a – rolled product thickness

Steel with customized mechanical properties is available upon request.

THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

● S315MC

Thickness, mm	Strip width, mm														
	900	1,000	1,100	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,640	1,700	1,850
1.50-1.79															
1.80-2.99															
3.00-3.99															
4.00-4.99															
5.00															

Rolled products with customized properties, including thickness/width ratio, are available upon request.

● S355MC

Thickness, mm	Strip width, mm														
	900	1,000	1,100	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,640	1,700	1,850
1.50-1.79															
1.80-2.49															
2.50-2.99															
3.00-3.99															
4.00-4.99															
5.00-15.00															

● S420MC

Thickness, mm	Strip width, mm														
	900	1,000	1,100	1,200	1,250	1,290	1,350	1,400	1,450	1,500	1,550	1,600	1,640	1,700	1,850
1.75-1.79															
1.80-2.29															
2.30-2.99															
3.00-3.99															
4.00-4.99															
5.00-15.00															

● S460MC

Thickness, mm	Strip width, mm														
	900	1,000	1,100	1,200	1,250	1,290	1,350	1,400	1,450	1,515	1,550	1,600	1,640	1,700	1,850
2.00-2.29															
2.30-2.99															
3.00-3.50															
3.51-3.90															

● S500MC

Thickness, mm	Strip width, mm														
	900	1,000	1,100	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,640	1,700	1,850
3.00-3.49															
3.50-3.99															
4.00-5.00															

● S550MC

Thickness, mm	Strip width, mm														
	900	1,000	1,100	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,640	1,700	1,850
4.00-5.00															

