



## TABLE OF STEELS FOR WELDED AND SEAMLESS HOLLOW SECTIONS

The following steelgrades, codified by the European norms EN 10210 and EN 10219, are available for hot finished and cold finished seamless and welded hollow sections.

### CHEMICAL ANALYSIS

Steelgrade	Chemical elements (% on mass)													
	C max.	Si	Mn	P max.	S max.	Nb max.	V max.	Al min.	Ti max.	Cr max.	Ni max.	Mo max.	Cu max.	N max.
<b>S235JRH</b>	0.17	-	max. 1.40	0.040	0.040	-	-	-	-	-	-	-	-	0.009
<b>S275J0H</b>	0.20	-	max. 1.50	0.035	0.035	-	-	-	-	-	-	-	-	0.009
<b>S275J2H</b>	0.20	-	max. 1.50	0.030	0.030	-	-	-	-	-	-	-	-	-
<b>S355J0H</b>	0.22	max. 0.55	max. 1.60	0.035	0.035	-	-	-	-	-	-	-	-	0.009
<b>S355J2H</b>	0.22	max. 0.55	max. 1.60	0.030	0.030	-	-	-	-	-	-	-	-	-
<b>S355K2H</b>	0.22	max. 0.55	max. 1.60	0.030	0.030	-	-	-	-	-	-	-	-	-
<b>S275NH</b>	0.20	max. 0.40	0.50 – 1.40	0.035	0.030	0.050	0.08	0.020	0.03	0.30	0.30	0.10	0.35	0.015
<b>S275NLH</b>				0.030	0.025									
<b>S355NH</b>	0.20	max. 0.50	0.90 – 1.65	0.035	0.030	0.050	0.12	0.020	0.03	0.30	0.50	0.10	0.35	0.020
<b>S355NLH</b>				0.18	0.030									
<b>S420NH</b>	0.22	max. 0.60	1.00 – 1.70	0.035	0.030	0.050	0.20	0.020	0.03	0.30	0.80	0.10	0.70	0.025
<b>S420NLH</b>				0.030	0.025									
<b>S460NH</b>	0.22	max. 0.60	1.00 – 1.70	0.035	0.030	0.050	0.20	0.020	0.03	0.30	0.80	0.10	0.70	0.025
<b>S460NLH</b>				0.030	0.025									
<b>S275MH</b>	0.13	max. 0.50	max. 1.50	0.035	0.030	0.050	0.08	0.020	0.05	-	0.30	0.20	-	0.020
<b>S275MLH</b>				0.030	0.025									
<b>S355MH</b>	0.14	max. 0.50	max. 1.50	0.035	0.030	0.050	0.10	0.020	0.050	-	0.30	0.20	-	0.020
<b>S355MLH</b>				0.030	0.025									
<b>S420MH</b>	0.16	max. 0.50	max. 1.70	0.035	0.030	0.050	0.12	0.020	0.050	-	0.30	0.20	-	0.020
<b>S420MLH</b>				0.030	0.025									
<b>S460MH</b>	0.16	max. 0.60	max. 1.70	0.035	0.030	0.050	0.12	0.020	0.050	-	0.30	0.20	-	0.025
<b>S460MLH</b>				0.030	0.025									

- Steels according to EN 10210 for hot finished hollow sections.
- Steels according to EN 10210 and EN 10219 for hot finished and cold finished hollow sections.
- Steels according to EN 10219 for cold finished hollow sections.