

EN10210-1 European Standard (Hot Formed Hollow Profile Made from Non-alloyed Structural Steel and Fine Grain Structural Steel)

Standard:

EN10210-1

Application:

Hot formed hollow profile made from non-alloyed structural steel and fine grain structural steel)

Main Grades:

S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355K2H

Chemical Composition

Steel Grade	Chemical Composition Limits, %					
	C max	Si max	Mn max	P max	S max	N max
S235JRH	0.17	/	1.40	0.040	0.040	0.009
S275J0H	0.20	/	1.50	0.035	0.035	0.009
S275J2H	0.20	/	1.50	0.030	0.030	/
S355J0H	0.22	0.55	1.60	0.035	0.035	0.009
S355J2H	0.22	0.55	1.60	0.030	0.030	/
S355K2H	0.22	0.55	1.60	0.030	0.030	/

Mechanical Properties

Steel Grade	Mechanical Properties			Impact Energy KV J		
	Yield Strength MPa	Tensile Strength MPa	Elongation %	At Test Temperature of °C		
				-20	0	20
S235JRH	235	360-510	26	/	/	27
S275J0H	275	410-560	23	/	27	/
S275J2H	275	410-560	23	27	/	/
S355J0H	355	510-680	22	/	27	/
S355J2H	355	510-680	22	27	/	/
S355K2H	355	510-680	22	40	/	/

Remarks

HR: hot rolled	CW: cold worked	SR: stress relieved
A: annealed	N: normalized	HF