

## Material properties



**Material** S 355 J 2 H (Italy / UNI)  
**Group** Structural and constructional steels  
**Subgroup** EN 10219-1

**Comment**

**Application** Cold formed welded structural hollow sections of circular, square or rectangular form intended for use in construction.

Yield Stress[MPa]			
Dimension	Min	Max	Approx
< 3 mm	355	-	-
> 3 mm, < 16 mm	355	-	-
> 16 mm, < 40 mm	345	-	-

Tensile Stress[MPa]			
Dimension	Min	Max	Approx
< 3 mm	510	680	-
> 3 mm, < 16 mm	490	630	-
> 16 mm, < 40 mm	490	630	-

Elongation A5 [%]			
Dimension	Min	Max	Approx
< 3 mm	20.0	-	-
> 3 mm, < 16 mm	20.0	-	-
> 16 mm, < 40 mm	20.0	-	-

Chemical Composition [%]			
Criterion	Min	Max	Approx
C	-	0.2200	-
Si	-	0.5500	-
Mn	-	1.6000	-
P	-	0.0350	-
S	-	0.0350	-



### Cross Reference Table

Material	Standard	Country
S355J2H	DIN	Germany
S 355 J2H (RoSt 52-3)	DIN	Germany
1.0576	EN	European Union
S 355 J2 H	EN	European Union
C 0563	JUS	Yugoslavia
C 0562	JUS	Yugoslavia
1.0576	WN	Germany