



EN10025 S275JR/J2/J0 Angel Steel

S275JR/J2/J0 Angle steel belongs to low-alloy structural steel, and S275JR/J2/J0 Angle steel is a kind of simple section steel. Besides, S275JR/J2/J0 Angle steel is mainly used for metal components framework of work shop. S275JR/J2/J0 Angle steel has excellent weld-ability, plastic deformation properties and mechanical strength.

According to the various needs about structure, S275JR/J2/J0 Angle steel can make up different stress components. S275JR/J2/J0 Angle steel is widely used in various kinds of architectural structure and engineering structure, such as beam, bridges, transmission tower, lifting transportation machinery, ship, reaction tower, container frame etc.

S275JR/J0/J2 Angel Steel Chemical Requirements:

Material	C% max			Si %	Mn %	P %	S %	N %	Cu %	Other %
	≤16	>16,≤40	>40	max	max	max	max	max	max	max
S275JR	0.21	0.21	0.21	-	1.50	0.035	0.035	0.012	0.55	-
S275J0	0.18	0.18	0.18	-	1.50	0.030	0.030	0.012	0.55	-
S275J2	0.18	0.18	0.18	-	1.50	0.025	0.025	-	0.55	-

Material	Tensile strength Mpa				
	Normal thickness mm				
	≤3	>3,≤100	>100,≤150	>150,≤250	>250,≤400
S275JR	430-580	410-560	400-540	380-540	-
S275J0	430-580	410-560	400-540	380-540	-
S275J2	430-580	410-560	400-540	380-540	380-540



S275JR/J0/J2 Angel Steel Mechanical Properties:

Material	Minimum yield strength Mpa							
	Normal thickness mm							
	≤16	>16,≤40	>40,≤63	>63,≤80	>80,≤100	>100,≤150	>150,≤200	>200,≤250
S275JR	275	265	255	245	235	225	215	-
S275J0	275	265	255	245	235	225	215	-
S275J2	275	265	255	245	235	225	215	195

Material	Minimum percentage elongation after fracture %										
	L0=80mm Normal thickness mm					L0=5.65 √ S0 mm Normal thickness mm					
	≤1	>1,≤0.5	>1.5,≤2	>2,≤5	>2.5,≤3	>3,≤40	>40,≤63	>63,≤100	>100,≤150	>150,≤250	>250,≤400
S275JR	15	16	17	18	19	23	22	21	19	18	
S275J0	14	15	16	17	18	22	21	20			
S275J2	13	14	15	16	17	21	20	19			17 (I and t)

Material	Minimum energy (J) Normal thickness mm			
	Temperature	≤150	>150,≤250	>250,≤400
	S275JR	20	27	27
S275J0	0	27	27	-
S275J2	-20	27	27	27



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