



EN10025 S235JR/J2/J0 Angel Steel

S235JR/J2/J0 Angle steel belongs to carbon structural steel, and S235JR/J2/J0 Angle steel is a kind of simple section steel. Besides, S235JR/J2/J0 Angle steel is mainly used for metal components framework of work shop. S235JR/J2/J0 Angle steel has excellent weld-ability, plastic deformation properties and mechanical strength.

According to the various of needs about structure, S235JR/J2/J0 Angle steel can make up different stress components. S235JR/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 and container frame etc.

S235JR/J0/J2 Angel Steel Chemical Requirements:

Material	C% max			Si %	Mn %	P %	S %	N %	Cu %	Other %
	≤16	>16,≤40	>40							
S235JR	0.19	0.19	0.23	-	1.50	0.045	0.045	0.014	0.60	-
S235J0	0.19	0.19	0.19	-	1.50	0.040	0.040	0.014	0.60	-
S235J2	0.19	0.19	0.19	-	1.50	0.035	0.035	-	0.60	-



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Tel:0086-21-61182423 Website:www.katalor.com

Material	Tensile strength Mpa				
	Normal thickness mm				
	≤3	>3,≤100	>100,≤150	>150,≤250	>250,≤400
S235JR	360-510	360-510	350-500	340-490	-
S235J0	360-510	360-510	350-500	340-490	-
S235J2	360-510	360-510	350-500	340-490	330-480

S235JR/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	>250,≤400
S235JR	235	225	215	215	215	195	185	175	
S235J0	235	225	215	215	215	195	185	175	
S235J2	235	225	215	215	215	195	185	175	165

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
S235JR	17	18	19	20	21	26	25	24	22	21	
S235J0	16	17	18	19	20	25	24	23			
S235J2	15	16	17	18	19	24	23	22			21 (I and t)



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Material	Normal thickness mm			
	Minimum energy (J)			
	Temperature	≤150	>150,≤250	>250,≤400
S235JR	20	27	27	—
S235J0	0	27	27	—
S235J2	-20	27	27	27

After more than ten years of development, Shanghai Katalor Enterprises Co.,Ltd has become one of the industry leaders ,and we have thousands of partners all over the world. We will be your most trusted supplier. S235JR/J2/J0 Angle steel is our advantage product, we have a large number of successful cases and experience, we have the ability to provide you the best service. Please contact me, and give each other a chance to cooperate!