



DECLARATION of PERFORMANCE



No: 2024/1

Products : Specified below type and grade produced hot rolled coil / hot rolled plate cut from coil / hot rolled sheet cut from coil / slitted coil.

Type and Grade	Thicknesses (mm)		
		CTA	CTB
S235J2	4.0 - 20.6		2.0 - 20.0
S235J2 + N	3.0 - 10.0		
S235J2C + N	3.0 - 10.0	4.0 - 20.6	
S235JR + AR	1.35 - 22.0	2.0 - 6.0 and 8.0 - 12.7	2.0 - 20.0
S275J2	1.40 - 15.5	2.3 - 12.0	2.0 - 20.0
S275J2 + N	3.0 - 10.75		
S275J2C + N	3.0 - 10.75		
S275JR + AR	2.0 - 22.0	2.75 - 20.0	
S355J2 (Cu)	1.8 - 12.0		
S355J2	2.3 - 20.0	2.5 - 11.8	
S355J2 + N	3.0 - 20.0		
S355J2C + N	3.0 - 20.0		
S355J0 + AR	3.0 - 20.0		
S355JR + AR		2.0 - 20.0	
S355J2C + N		3.0 - 11.8	

Intended Purpose : Construction Materials

Producer : İSKENDERUN DEMİR VE ÇELİK A.Ş.
Karşı Mahalle Şehit Yüzbaşı Ali Oğuz Bulvarı No:1 Payas / HATAY

Evaluation and Verification Systems of Performance Equability: System 2+

Harmonized Technical Specification: EN 10025-1:2019

Approved Institution: 1244-CPR-1035



İSKENDERUN DEMİR VE ÇELİK A.Ş.

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www.isdemir.com.tr

Trade Registry Number:
İskenderun-1599

Mersis Number:
0879000967000028

KEP Number:
isdemir@hs01.kep.tr



Declared Performances:

Essential Characteristics	Performance							
	Type and Grade	C % max	Si % max	Mn % max	P % max	S % max	N % max	Cu % max
Durability (Chemical Composition t ≤ 22 mm)	S235JR	0.17	-	1.40	0.035	0.035	0.012	0.55
	S235J2	0.17	-	1.40	0.025	0.025	-	0.55
	S235J2C	0.17	-	1.40	0.025	0.025	-	0.55
	S275JR	0.21	-	1.50	0.035	0.035	0.012	0.55
	S275J2	0.18	-	1.50	0.025	0.025	-	0.55
	S275J2C	0.18	-	1.50	0.025	0.025	-	0.55
	S355JR	0.24	0.55	1.60	0.035	0.035	0.012	0.55
	S355J0	0.20	0.55	1.60	0.030	0.030	0.012	0.55
	S355J2	0.20	0.55	1.60	0.025	0.025	-	0.55
	S355J2C	0.20	0.55	1.60	0.025	0.025	-	0.55

Grade acc. to EN 10025-2	Products in the form of	Dimensions (mm)		
		Thickness	Width	Length
S235JR; S235J2; S235J2C;	Coils	1.35 - 22.0	780 - 2025	-
S275JR; S275J2; S275J2C;	Sheets / plate cut from coils	1.35 - 22.0	780 - 2025	1000 - 15000
S355JR; S355J0; S355J2; S355J2C	Slitted coils	1.35 - 10.0	40 - 1000	-

Essential Characteristics	Performance						
	Type and Grade	Nominal thickness (t)			EN 10051		
Dimensional Tolerances		Nominal thickness (mm)					
	t ≤ 16						
	16 < t ≤ 22						
	235 min						
	275 min						
Yield Strength ReH (MPa)	Nominal thickness (mm)						
	t < 3						
	3 ≤ t ≤ 22						
	360 to 510						
	430 to 580						
Tensile Strength Rm (MPa)	Nominal thickness (mm)						
	t < 3						
	3 ≤ t ≤ 22						
	360 to 510						
	430 to 580						
Elongation (Transverse) % Gl:80 mm t < 3.0 mm L0= 5.65 Sqrt A t ≥ 3.0 mm	Nominal thickness (mm)						
	Type and Grade	1.35 < t ≤ 1.5	1.5 < t ≤ 2	2 < t ≤ 2.5	2.5 < t < 3	3 ≤ t ≤ 22	
		S235 JR/J2/J2C	16	17	18	19	24
		S275 JR/J2/J2C	14	15	16	17	21
		S355 JR/J0/J2/J2C	13	14	15	16	20



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	Type and Grade	Temperature	Nominal thickness (mm)
		(°C)	t ≤ 22
Impact Test (J) (Impact test is not required for below 6 mm thickness)	S235JR/S275JR/S355JR	20	27
	S355J0	0	27
	S235J2/S275J2/S355J2	-20	27
	S235J2C/S275J2C/S355J2C	-20	27
Weldability (CEV) (Max CEV) is increased by 0.01 % for Si ≤ 0.25 % and 0.02 % for Si ≤ 0.04 %)	Type and Grade	CEV (% max.)	
		t ≤ 22	
	S235 JR/J2/J2C	0.35	
	S275 JR/J2/J2C	0.40	
	S355 JR/J0/J2/J2C	0.45	

Construction materials which mentioned above has as declared performance. Construction Materials Regulation (305/2011/AB) as required this performance declaration can declared only under responsibility of producer.

Signed for and on behalf of the İskenderun Demir ve Çelik A.Ş. by:


Serdar GÜNBAY
Manager

Quality Metallurgy


Buğra ŞENER

Executive Vice President

Operations

2024 / HATAY



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