



DECLARATION of PERFORMANCE

No: 2022/001

Products : S235JR; S235J0; S235J2; S235JRC; S235J0C; S235J2C; S275JR; S275J0;
S275J2; S275JRC; S275J0C; S275J2C; S355JR; S355J2; S355J0; S355JRC;
S355J0C; S355J2C; S355K2 type and grade produced hot rolled sheets

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 Standard: EN 10025-2:2019

Approved Institution: TSE – 1783



İSKENDERUN DEMİR VE ÇELİK A.Ş.

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www.isdemir.com.tr

Trade Registry Number:
Iskenderun-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 $t \leq 25$ mm)	S235JR	0,17	-	1,40	0,035	0,035	0,012	0,55
	S235J0	0,17	-	1,40	0,030	0,030	0,012	0,55
	S235J2	0,17	-	1,40	0,025	0,025	-	0,55
	S235JRC	0,17	-	1,40	0,035	0,035	0,012	0,55
	S235J0C	0,17	-	1,40	0,030	0,030	0,012	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
	S275J0	0,18	-	1,50	0,030	0,030	0,012	0,55
	S275J2	0,18	-	1,50	0,025	0,025	-	0,55
	S275JRC	0,21	-	1,50	0,035	0,035	0,012	0,55
	S275J0C	0,18	-	1,50	0,030	0,030	0,012	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
	S355K2	0,20	0,55	1,60	0,025	0,025	-	0,55
	S355JRC	0,24	0,55	1,60	0,035	0,035	0,012	0,55
	S355J0C	0,20	0,55	1,60	0,030	0,030	0,012	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; S235J0; S235J2; S235JRC; S235J0C; S235J2C; S275JR; S275J0; S275J2; S275JRC; S275J0C; S275J2C; S355JR; S355J0; S355J2; S355JRC; S355J0C; S355J2C; S355K2	Coils	1,3 - 25,0	780 - 2025	-
	Sheets cut from coils	1,3 - 25,0	780 - 2025	1500 - 15000
	Slitted coils	1,3 - 10,0	40 - 1000	-



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Essential Characteristics	Performance					
Dimensional Tolerances	Nominal thickness (t)				EN 10051	
Yield Strength ReH (Mpa)	Type and Grade	Nominal thickness (mm)				
		t ≤ 16		16 < t ≤ 25		
	S235 JR/J0/J2/JRC/J0C/J2C	235 min		225 min		
	S275 JR/J0/J2/JRC/J0C/J2C	275 min		265 min		
S355 JR/J0/J2/K2/JRC/J0C/J2C	355 min		345 min			
Tensile Strength Rm (Mpa)	Type and Grade	Nominal thickness (mm)				
		t < 3		3 ≤ t ≤ 25		
	S235 JR/J0/J2/JRC/J0C/J2C	360 to 510		360 to 510		
	S275 JR/J0/J2/JRC/J0C/J2C	430 to 580		410 to 560		
S355 JR/J0/J2/K2/JRC/J0C/J2C	510 to 680		470 to 630			
Elongation (Transverse) % Gl:80 mm t < 3.0 mm L0= 5,65 Sqrt A t ≥ 3.0 mm	Type and Grade	Nominal thickness (mm)				
		1.3 < t ≤ 1.5	1.5 < t ≤ 2	2 < t ≤ 2.5	2.5 < t < 3	3 ≤ t ≤ 25
	S235 JR/J0/J2/JRC/J0C/J2C	16	17	18	19	24
	S275 JR/J0/J2/JRC/J0C/J2C	14	15	16	17	21
S355 JR/J0/J2/K2/JRC/J0C/J2C	13	14	15	16	20	
Impact Test (J) (Impact test is not required for below 6 mm thickness)	Type and Grade	Temperature	Nominal thickness (mm)			
		(°C)	t ≤ 25			
	S235JR/S275JR/S355JR S235JRC/S275JRC/S355JRC	20	27			
	S235J0/S275J0/S355J0 S235J0C/S275J0C/S355J0C	0	27			
	S235J2/S275J2/S355J2 S235J2C/S275J2C/S355J2C	-20	27			
	S355K2	-20	40			
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 ≤ 25				
	S235 JR/J0/J2/JRC/J0C/J2C	0,35				
	S275 JR/J0/J2/JRC/J0C/J2C	0,40				
S355 JR/J0/J2/K2/JRC/J0C/J2C	0,45					



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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

2022 / HATAY



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