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Digital Material Passport

ID	DMP-METAL-006	Version	1.0.0
Issue Date	2025-05-18	Certificate Type	EN 10204 3.1

Business Transaction

Order		Delivery	
Order ID	PO-65478	Delivery ID	DN-98761
Position	1-10	Position	All
Date	2025-04-15	Date	2025-05-17
Quantity	75000 kg	Quantity	75000 kg
Specification			
Name	1180-1/ ISO GENERIC - HR	Revision	2024-11-07
Creator	Nordic Metals AB	Base Standard	ISO 683-1

Product Information

Product Name	Structural Steel S355J2+N - Various Shapes
Batch ID	H-79513-03
Surface Condition	Hot-rolled
Production Date	2025-05-16
Country of Origin	DE

Customs Classification

HS Code	721633
Standard Description	H sections of iron or non-alloy steel
CN8 (EU)	72163300
Description (EU)	H-sections of iron or non-alloy steel
HTS (US)	7216330000
Description (US)	H-sections of iron or nonalloy steel

Product Norms

Designation	EN 10025-2 (2019)
Grade	S355J2+N

Material Designations

System	EN
Designation	1.0577

Delivery Conditions

Marking

Type	Laser
Content	S355J2+N
Location	Web surface
Legibility	Clear

Bundles

Type	Crated
Quantity	10
Material	Steel straps
Condition	Good

Chemical Analysis

Heat Number	H-79513
Melting Process	BOF+LF
Casting Date	2025-05-15
Casting Method	ContinuousCasting
Sample Location	Ladle

Elements

Symbol	C	Mn	Si	P	S	CEV
Unit	%	%	%	%	%	%
Min	-	-	-	-	-	-
Max	0.2	1.6	0.5	0.025	0.02	0.45
Actual	0.17	1.47	0.25	0.017	0.011	0.42

Formula Definitions

CEV = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15: 0.42%

Mechanical Properties

Property	Symbol	Actual	Minimum	Maximum	Method	Status
Tensile Strength 3 specimens tested					EN ISO 6892-1	-
Individual Values			# 1	# 2	# 3	
Value [MPa]			523	525	527	
Statistics			Mean	Min/Max		Std Dev
			525.0	523 / 527		
Yield Strength 3 specimens tested					EN ISO 6892-1	-
Individual Values			# 1	# 2	# 3	
Value [MPa]			383	385	387	
Statistics			Mean	Min/Max		Std Dev
			385.0	383 / 387		
Elongation after fracture 3 specimens tested					EN ISO 6892-1	-
Individual Values			# 1	# 2	# 3	
Value [%]			22.5	23.0	23.5	
Statistics			Mean	Min/Max		Std Dev
			23.0	22.5 / 23.5		
Charpy V-notch Impact Energy 3 specimens tested at -20°C					EN ISO 148-1	-
Individual Values			# 1	# 2	# 3	
Value [J]			40	42	44	
Statistics			Mean	Min/Max		Std Dev
EN ISO 148-1 statistical analysis			42.0	40 / 44		2.0 (Sample)

Validation

We hereby certify that all material described above has been manufactured and tested in accordance with the requirements of EN 10025-2:2019 and EN 10204:2004 type 3.1. The results comply with the requirements for S355J2+N steel grade.

Validated By

Name	Title	Department	Date
Klaus Müller	Quality Control Manager	Quality Assurance	2025-05-18