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Digital Material Passport

ID	DMP-METAL-001	Version	1.0.0
Issue Date	2025-05-14	Certificate Type	EN 10204 3.1

Business Transaction

Order		Delivery	
Order ID	PO-78901	Delivery ID	DN-56789
Position	10	Position	1
Date	2025-04-20	Date	2025-05-12
Quantity	5000 kg	Quantity	5000 kg
Specification			
Name	EN 10025-2	Revision	2019

Product Information

Product Name	Structural Steel S355J2
Batch ID	H-10987-02
Surface Condition	Hot-rolled
Production Date	2025-05-09
Country of Origin	DE

Customs Classification

HS Code	720839
Standard Description	Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, hot-rolled, not clad, plated or coated
CN8 (EU)	72083900
Description (EU)	Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, hot-rolled, not clad, plated or coated, of a thickness of 4.75 mm or more

Product Norms

Designation	EN 10025-2 (2019)
Grade	S355J2

Material Designations

System	EN
Designation	1.0577

Product Shape

Form	RoundBar
Length	6000 mm
Diameter	50 mm

Delivery Conditions

Bundles

Type	Hexagonal
Quantity	5
Material	Wire binding
Condition	Good

Heat Treatment

Process	Lot	Furnace	Date
Normalizing	HT-2024-11-15-B47	FURNACE-03	2024-11-15

Stages

Stage	Temperature	Duration	Cooling	Atmosphere
Austenitizing	920 C			

Chemical Analysis

Heat Number	H-10987
Melting Process	EAF+LF
Casting Date	2025-05-08
Casting Method	ContinuousCasting
Sample Location	Ladle

Elements

Symbol	C	Mn	Si	P	S	N	CEV
Unit	%	%	%	%	%	%	%
Min	-	-	-	-	-	-	-
Max	0.2	1.6	0.5	0.025	0.02	0.009	0.45
Actual	0.18	1.45	0.25	0.018	0.012	0.006	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]			508	510	512	
Statistics			Mean	Min/Max	Std Dev	
			510.0	508 / 512		
Yield Strength 3 specimens tested					EN ISO 6892-1	-
Individual Values			# 1	# 2	# 3	
Value [MPa]			378	380	382	
Statistics			Mean	Min/Max	Std Dev	
			380.0	378 / 382		
Elongation after fracture 3 specimens tested					EN ISO 6892-1	-
Individual Values			# 1	# 2	# 3	
Value [%]			21.5	22.0	22.5	
Statistics			Mean	Min/Max	Std Dev	
EN ISO 6892-1 statistical analysis			22.0	21.5 / 22.5	0.5 (Sample)	

Validation

We hereby certify that the material described above has been manufactured and tested in accordance with the requirements of EN 10204:2004 type 3.1 and the specified standards. The results comply with the requirements.

Validated By

Name	Title	Department	Date
Johann Weber	Quality Inspector	Quality Assurance	2025-05-14