ACME METALS

Manufacturer

ACME Metal Works GmbH

Industrial Park 123
52066Aachen
DE
quality@acme-metal.example.com

Customer

Engineering Solutions Ltd.

Tech Park Way 45
Cardiff
CF14 5DU
GB
procurement@engisolutions.example.com

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

Order ID	PO-78901
Position	10
Date	2025-04-20
Quantity	5000 kg

Delivery

Delivery ID	DN-56789
Position	1
Date	2025-05-12
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

Standard	EN 10025-2 (2019)

Material Designations

Name (EN)	1.0577

Product Shape

Form	RoundBar
Length	6000 mm

Diameter	50 mm

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	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	378 / 382	

Elongation after fracture 3 specimens tested					EN ISO 6892-1	-

Individual Values	# 1	# 2	# 3
Value [%]	21.5	22	22.5

Statistics	**Mean**	**Min/Max**	**Std Dev**
EN ISO 6892-1 statistical analysis	22	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.

Individual Statements

- ✓ Material is of German origin
- ✓ 100% of the material is from European Union sources
- ✓ Material is of non-Russian origin *(EU Regulation No. 833/2014)*
- ✓ Material is conflict-free and sourced responsibly *(OECD Due Diligence Guidance)*

Validated By

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

Data schema maintained by Material Identity. https://schemas.materialidentity.org/metals-schemas/v0.1.1/schema.json