Manufacturer

Steel Testing Labs GmbH

123 Test Street
10115Berlin
DE

Customer

Customer Industries Inc

456 Customer Ave
New York12345
US

Digital Material Passport

ID	TEST-SPECIMEN-001	*Version*	0.1.0
Issue Date	2025-09-29	*Certificate Type*	

Business Transaction

Order		**Delivery**	
Order ID	ORD-2025-001	*Delivery ID*	DEL-2025-001
Quantity		*Quantity*	1000 kg

Product Information

Product Name	High Strength Steel Plate
Batch ID	BATCH-2025-001

Product Shape

Form	Plate
Length	6000 mm
Width	2000 mm
Thickness	50 mm

Chemical Analysis

Heat Number	H123456
Melting Process	EAF+LF
Casting Date	2025-09-28
Casting Method	ContinuousCasting

Elements

Symbol	**C**	**Mn**	**Si**	**P**	**S**	**Cr**	**Ni**	**Mo**	**Cu**	**Al**	**N**	**CEV**
Unit	%	%	%	%	%	%	%	%	%	%	%	%
Min	-	1.4	-	-	-	-	-	-	-	0.02	-	-
Max	0.2	1.7	0.5	0.025	0.015	0.3	0.2	0.1	0.25	0.05	0.012	0.45
Actual	0.18	1.45	0.35	0.012	0.008	0.25	0.15	0.08	0.18	0.025	0.008	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 Room temperature Specimen: 1/4T, L	Rm	485MPa	450MPa	600MPa	ASTM E8	✓
Charpy V-Notch Impact Temperature: -40°C Specimen: 1/4T, L-T					ASTM E23	✓

Individual Values	# 1	# 2	# 3
Value [J]	48	52	45

Statistics	**Mean**	**Min/Max**	**Std Dev**
	48.3	45 / 52	3.5 (Sample)

Through-Thickness Tensile — EN 10164 ✓
Room temperature, through-thickness direction

Location (position)	0	0.25	0.5	0.75	1.0
Value [MPa]	475	485	490	487	478

Yield Strength Room temperature Specimen: Surface, T - ID: YS-SURF-T-001	Re	355MPa	335MPa	ASTM E8	✓
Elongation Room temperature Specimen: Custom (Mid-radius at end section), C - ID: ELONG-MR-001	A	22%	20%	ASTM E8	✓

Validation

We certify that the material described herein has been tested and inspected in accordance with the specified standards and meets all requirements.

Validated By

Name	*Title*	*Department*	*Date*
Dr. Hans Schmidt	Quality Manager		2025-09-29

Data schema maintained by Material Identity. https://schemas.materialidentity.org/metals-schemas/v0.1.0/schema.json