

<div><div>Customer</div><div>Customer Industries Inc</div><div>456 Customer Ave</div><div>New York12345</div><div>US</div></div>	<div>Manufacturer</div> <div>Steel Testing Labs GmbH</div> <div>123 Test Street</div> <div>10115Berlin</div> <div>DE</div>
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Digital Material Passport

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

Business Transaction

Order	ORD-2025-001	Delivery	DEL-2025-001
Order ID		Delivery ID	
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	Rm	485MPa	450MPa	600MPa	ASTM E8	✓
Room temperature Specimen: 1/4T, L						
Charpy V-Notch Impact					ASTM E23	✓
Temperature: -40°C Specimen: 1/4T, L-T						

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

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