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Digital Material Passport

ID	DMP-X12345-2024	Version	1.0.0
Issue Date	2024-04-22	Certificate Type	EN 10204 3.1

Business Transaction

Order		Delivery	
Order ID	ORD98765	Delivery ID	DEL45678
Date	2024-01-15	Date	2024-02-27
Quantity	100 pcs	Quantity	250.0 kg

Product Information

Product Name	Flat Bar Alloy 40 x 4 x 6000 mm (STD-101)
Batch ID	B12345
Surface Condition	T66

Material Designations

System	AA
Designation	Al 6060 T66

Product Shape

Form	FlatBar
Length	6000 mm
Width	40 mm
Thickness	4 mm

Chemical Analysis

Heat Number	H98765
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Elements

Symbol	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ni	Pb	Ti	N
Unit	%	%	%	%	%	%	%	%	%	%	ppm
Min	0.3	0.1	-	-	0.35	-	-	-	-	-	-
Max	0.6	0.3	0.1	0.1	0.6	0.05	0.15	0.05	0.05	0.1	2000
Actual	0.4502	0.1625	5.0E-4	0.056	0.3795	0.004	0.005	0.0051	0.0012	0.0148	200

Mechanical Properties

Property	Symbol	Actual	Minimum	Maximum	Method	Status
Yield Strength						-

Individual Values		# 1	# 2	# 3
Value [MPa ]		171.2	172.5	174.0
Statistics	Mean	Min/Max		Std Dev
	172.56	171.2 / 174.0		

Tensile Strength

Individual Values		# 1	# 2	# 3
Value [MPa ]		219.8	220.3	221.0
Statistics	Mean	Min/Max		Std Dev
	220.35	219.8 / 221.0		

Elongation

Individual Values		# 1	# 2	# 3
Value [% ]		12.5	12.8	13.2
Statistics	Mean	Min/Max		Std Dev
	12.83	12.5 / 13.2		

Hardness

Individual Values		# 1	# 2	# 3	# 4	# 5
Value [HBW ]		74	75	76	75	76
Statistics	Mean	Min/Max		Std Dev		
ASTM E10 statistical analysis	75.2	74 / 76		0.84 ( Sample )		

Validation

We hereby certify that the product mentioned above fulfills the specifications according to the European Standards EN 755-8. The material described has been tested and complies with terms of the order contract.

Validated By

Name	Title	Department	Date
John Smith	Quality Manager	Quality Assurance	2024-04-22



Data schema maintained by [Material Identity](https://schemas.materialidentity.org/metals-schemas/v0.1.0/schema.json). <https://schemas.materialidentity.org/metals-schemas/v0.1.0/schema.json>