



XRF MATERIAL VERIFICATION CERTIFICATE

IPA Werks LLC

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619-775-1544

Result:

Consistent with AA 7075 Aluminum

Method:

Non-destructive XRF / PMI
Positive Material Identification

Instrument:

Thermo Scientific Niton XL5 Plus
Calibrated handheld XRF analyzer

Customer	Zamboni Machining
Customer Address	1420 East 6th Street, Helena, MT 59601
Sample Description	Customer-supplied aluminum workstock for alloy verification
Certificate ID	SAMPLE-7075-001
Report Date	April 28, 2026
Readings	3 readings averaged
Test Prep	Small surface area cleaned prior to measurement



Sample / test-area photo from XRF certificate example

Alloy Match Summary

Rank	Candidate Match	Estimated Match Confidence	Basis / Notes
1	AA 7075	High - approx. 98%	Composition dominated by Al with Zn, Mg, and Cu typical of 7075-series aluminum.
2	AA 7050	Low - approx. 1.2%	Similar high-zinc aerospace aluminum family; Cu/Mg/Zn balance is weaker.
3	AA 6061	Very Low - <1%	Mg/Si alloy; measured zinc and copper are too high for a good 6061 match.

Reported Composition

Element	Avg. Result (wt%)	2-sigma Uncertainty	Report Status
Al	89.92	0.12	Balance / major element
Zn	5.73	0.06	Reported
Mg	2.42	0.04	Reported
Cu	1.53	0.03	Reported
Cr	0.21	0.01	Reported
Fe	0.17	0.02	Reported
Mn	0.05	0.01	Below 0.10% threshold
Ti	0.03	0.01	Below 0.10% threshold

Reported values are illustrative sample data for website display. Actual certificates should be generated directly from instrument readings. XRF analysis reports the composition of the tested surface area and may be affected by surface condition, coatings, plating, contamination, geometry, and sample homogeneity. Elements below the standard display threshold of 0.10 wt% may be omitted from the customer-facing summary unless they are material to the alloy match. This report is intended for material verification, PMI screening, and composition documentation; it is not a substitute for destructive laboratory chemistry where a governing specification requires it.

Verified By: _____

Reviewed By: _____