McMASTER-CARR®

Certificate

330-995-5500
330-995-9600 (fax)
cle.sales@mcmaster.com

Purchase Order	Order Date	Placed By	McMaster-Carr Number	Number of Certificates
P1561389	1/19/2026	Jonathan Wood	1363477-01	1

Line		Product	Ordered	Status	Certificate
2	8974K12	Multipurpose 6061 Aluminum Rod, 7/8" Diameter x 6 Feet Long	1 each	1 each delivers January 21	240–8769

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Pennex Aluminum Co.
Material Property Certification

1 Commerce Avenue
Leetonia, OH 44431
Tel 330-427-6704
Fax 330-427-2601

Customer: A.M. CASTLE

We certify the part numbers listed below have been processed, sampled, tested, and inspected in accordance with the chemical and mechanical specifications as outlined below.

Shipment Details

Cust. PO	Cust. P/N / Description	Sales Order	PENNEX P/N	Billet Supplier	Supplier Lot #	Alloy	Temper
651321	.875" ROUND ROD	271152-1-1	21163	EGA	E3J5820A	6061	T6511

Tensile Test Results

Extruded Lot Number	Sample ID	Wall Thickness (in)	Area (in^2)	Tensile Strength (UTS)		Yield Strength .2% offset (YD)		Elongation %(Manual)	
				ksi	Mpa	ksi	Mpa	2" gage Length	
271152-1-1	1	0.497	0.194	43.4	299	38.8	267	15.4	-
									-
									-
									-
									-
									-
									-
									-
									-
Limits:				**38**	**262**	**35**	**241**	**10**	

Chemical Analysis

										Other Elements			
Supplier Lot #	Alloy	% Si	%Fe	% Cu	% Mn	% Mg	% Cr	%Zn	% V	% Ti	% Each	% Total	% Al
E3J5820A	6061	0.62	0.18	0.17	0.05	0.83	0.05	0.01	0	0.014	<.05	<.15	REM.
Limits	**Min**	**0.4**	-	**0.15**	-	**0.8**	**0.04**	-	-	-	-	-	REM.
	Max	**0.8**	**0.7**	**0.4**	**0.15**	**1.2**	**0.35**	**0.25**	-	**0.15**	**0.05**	**0.15**	REM.



Comments: Extrusions Manufactured in the USA AMS-QQ-A-200/8 The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statutes. Conforms to EN 10204 type 3.1

We certify mechanical requirements are in accordance with ASTM B221-20 and/or ASTM B308-10 and have been tested per ASTM B557-14.
Compression / Flare/ Etch Test results are in compliance with Specifications.
We certify chemical requirements are in accordance with the current revisions of ASTM B221-14 and/or ASTM B308-10.
Compliant with EU Directive 2002-95-EC, RoHS (Removal of Hazardous Substances)

C. Hayes
C. Hayes
Inspector

Date: 1/31/24

FORM-195T Rev D