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
P1526015	11/12/2024	Jonathan Wood	5262188-01	1

Line		Product	Ordered	Status	Certificate
1	8974K75	Multipurpose 6061 Aluminum Rod, 2-1/4" Diameter x 2 Feet Long	1 each	1 each delivers November 13	242–2284

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
652203	2.250" ROUND ROD	271528-1-1	32707	Pennex	G02192405	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	
271528-1-1	1	0.498	0.195	49.6	342	45.7	315	16.3	-
									-
									-
									-
									-
									-
									-
									-
									-
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
G02192405	6061	0.63	0.24	0.18	0.08	0.85	0.05	0.01	0.02	0.02	<.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)

CASTLE METALS V-030 CLE

C. Hayes
C. Hayes
Inspector

Date: 2/24/24

FORM-195T Rev D