Arconic
Global Rolled Products
Alumax Mill Products, Inc.
1480 Manheim Pike
Lancaster, Pa. 17601

Certification of Test Results

SOLD TO
O NEAL FLAT ROLLED PRODUCTS
ACCOUNTS PAYABLE
1229 FULTON AVENUE
BRIGHTON, CO 80601

SHIP TO
O NEAL FLAT ROLLED PRODUCTS
LLC NEW CENTURY
201 LEAWOOD DRIVE
P O BOX 41
NEW CENTURY , KS 66031

CERT NO	0002250867
DATE	12/07/2018
SKID NO	934526
SKID WGT	5,222
PAGE	1 OF 1

ORDER NO	M79717	**PO NO**	NC-51696		
ITEM NO	1	**PART NO**			
ALLOY	5052	**TEMPER**	H111	**FORM**	COIL
GAUGE	.06300	**WIDTH**	51.0000	**LENGTH**	0.0000

MILL FINISH
NON ANODIZE QUALITY
OUT: STANDARD MILL FINISH
IN: STANDARD MILL FINISH
NOT EMBOSSED

LOT: 763440 COIL: A01 DROP: 848358 Estimated Aluminum Content: 96.9071%

INGOT	SI	FE	CU	MN	MG	CR	NI	ZN	TI
8483582	0.11	0.29	0.04	0.07	2.3	0.19	0.006	0.009	0.03

HEAD ULTIMATE STRENGTH LONG 29.6 KSI
TAIL ULTIMATE STRENGTH LONG 30.1 KSI
HEAD YIELD STRENGTH OFFSET=.2% LONG 17.4 KSI
TAIL YIELD STRENGTH OFFSET=.2% LONG 16.9 KSI
HEAD ELG IN 2 IN., AT FRACTURE 20 %
TAIL ELG IN 2 IN., AT FRACTURE 20.5 %

CHEMICAL COMPOSITION ACCORDING TO ASTM E-1251-17a
CHEMISTRY EXPRESSED AS % W/W FOR EACH REPORTED ELEMENT
MECHANICAL PROPERTIES ACCORDING TO ASTM B-557-15

** END OF CERTIFICATION **

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. Certification of test results shall not be reproduced except in full. This material was melted in the United States or a qualifying country (REF DFARS 225.872.1A); It was manufactured in the United States.

These commodities, technology and software exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited. This certification complies with EN 10204:2004.

Authorized By:
Elizabeth High-Lab Supervisor