



# METALLURGICAL TEST REPORT

6870 Highway 42 East  
Ghent, KY 41045-9615  
(502) 347-6000

Certificate: 859206 04

Customer: 0305 001  
NAS Order: LR 17296 1  
Your Order: 101139

GA 30071

Heat Treat Code: 76,623

Item Code: 4995

Date: 6/29/2023 Page: 1 Of 1

Steel: 316/316L

Finish: HRAP

Dia/Thk: .2500 in

Leg Length: 2.0000 in

Length: 252.00 in

Corrosion: ASTM A262 Prac A/E OK

**PRODUCT DESCRIPTION:**

Angle  
UNS S31600/S31603, EN10204 3.1  
ASTM A276/17, ASTM A479/21  
ASME SA479/21,  
AMS-QQS-763/D, QQS:763/F, AMS 5648/M, AMS 5653/J  
SOLUTION ANNEAL TEMP 1900F MIN

**REMARKS:**

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7014 EU DIRECTIVE  
2014/65/EU. RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight				
VD67563	836	VD67566	1410	VD67569	1410	VD67574	1220	VD67576	1286	VD67578	1350	VD67579	1288

**CHEMICAL ANALYSIS** CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

NAS Heat	Supplier Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
Y13H	Y13H	US	.019	.34	16.55	.37	1.51	2.003	.036	10.08	.034	.0012
			SI %									
			.20									

**MECHANICAL PROPERTIES**

l d o i c r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 2"
VD67563	R L 238.0	87.81	108.72	64.09	35.03
VD67566	R L 238.0	87.81	108.72	64.09	35.03
VD67569	R L 238.0	87.81	108.72	64.09	35.03
VD67574	R L 238.0	87.81	108.72	64.09	35.03
VD67576	R L 238.0	87.81	108.72	64.09	35.03
VD67578	R L 238.0	87.81	108.72	64.09	35.03
VD67579	R L 238.0	87.81	108.72	64.09	35.03

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical  
Dept. Mgr.

KRIS LARK