

36 FOEXS

outokumpu
high performance stainless steel

Outokumpu Stainless Plate, LLC



Certificate of Analysis and Tests

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OUR ORDER 0289470 - 02

HEAT & PIECE 860193-1A 04/29/15

SOLD TO: STAINLESS PROCESSING INC.
1255 MANOR ROAD
COATESVILLE PA 19320

SHIP TO: STNLS. PROC. C/O CIGAS MACHINE
LAUREL ST. & WEST CRANE RD.
PH:800-345-8126 (LAUREL ST. EN
POTTSTOWN PA 19464

-----	YOUR ORDER & DATE	-----
-----	ITEM DESCRIPTION	-----
S5558-I	2/13/15	
HEAT & PIECE 860193 - 1A		
WEIGHT	20725	
FINISH	1	
GRADE	316L / 316	UNS-S31603 / UNS-S31600
DIMENSIONS	5.500 X 72.000 X	180.000 EXACT

-----	SPECIFICATIONS	-----
*** MFG IN NEW CASTLE, IN, USA	FROM SLABS IMPORTED FROM BRITAIN	
AMS 5507F WITH EXCEPTIONS	AMS 5524L WITH EXCEPTIONS	
ASTM A240-15 ASME SA240-13ED	ASTM A480-14B ASMESA480 13ED	
ASTM A167-91	ASTM A262-14 PRACTICE E	
ASTM A666-10 ANN COND ONLY	ASTM A312-15 CHM&MECH ONLY	
MELTED ELECTRIC ARC METHOD	REFINED A.O.D. PROCESS	
ASTM A262-14 PRACTICE A	NACE MRO175-2009/ISO 15156	
NACE MRO103-2012	QQ-S-766D AMENDIII EX.P4.5.2	
DFAR 252.225-7009	NO GRIPPER MARKS	
NO WELD REPAIRS		

PLATES & TEST PCS SOLUTION ANNEALED @ 1900 DEGREES FAHRENHEIT MINIMUM.
THEN WATER COOLED OR RAPIDLY COOLED BY AIR
FREE FROM MERCURY CONTAMINATION AT CURRENT DETECTION LIMITS
HOT ROLLED, ANNEALED & PICKLED (HRAP)

-----	MECHANICAL & OTHER TESTS	-----
HARDNESS HRBW	87	
GRAIN SIZE	4	
YIELD STRENGTH (PSI)	44882	
TENSILE STRENGTH (PSI)	79690	
INTERGRANULAR CORROSION	OK	
ELONGATION % IN 2"	56.0	
REDUCTION OF AREA %	55.8	

-----	CHEMICAL COMPOSITION	-----
CARBON (C)	.014	
MANGANESE (MN)	1.66	
PHOSPHORUS (P)	.032	
SULFUR (S)	.001	
SILICON (SI)	.39	
CHROMIUM (CR)	16.22	
NICKEL (NI)	10.07	
COBALT (CO)	.26	
COPPER (CU)	.45	
MOLY (MO)	2.02	
NITROGEN (N)	.08	
COLUMBIUM (CB)	.015	
TITANIUM (TI)	.003	
ALUMINUM (AL)	.009	
TIN (SN)	.009	
TANTALUM (TA)	.003	

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE, SUPPLIED, AND TESTED IN ACCORDANCE WITH THE LISTED SPECIFICATION(S) AND THAT THE RESULTS OF ALL TESTS AND INSPECTIONS ARE ACCEPTABLE.

JAMES DOUBMAN, QUALITY ASSURANCE MANAGER

CERTIFICATE IN CONFORMANCE WITH EN10204-95 3.1.B/EN10204-2004 3.1
Outokumpu Stainless Plate, LLC
P.O. Box 370
New Castle, Indiana 47362

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