

CERTIFIED CHEMICAL ANALYSIS

Emseal, LLC
120 Carrier Drive
Toronto, Ontario M9W5R1
Attention: Bill Witherspoon

Project No.: 28790
Date Received: 5/26/09
Date Tested: 5/28/09
Reported: 5/29/09

SAMPLE DESCRIPTION AND CONDITION:

Three (3) Stainless Steel Plates, with three test areas on each plate, were received for Chemical Analysis.

SPECIFICATION(S)/METHOD(S)/PROCEDURE(S) FOLLOWED:

Optical Emission Spectroscopy (ASTM E1086-94 (05))

EQUIPMENT USED: Spectrolab CCD.

CHEMICAL ANALYSIS IN WEIGHT PERCENT

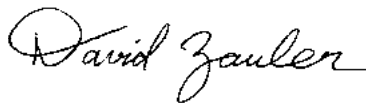
ELEMENT	Plate #1 Area #1	Plate #1 Area #2	Plate #1 Area #3	SAE 304L SPECIFICATIONS	SAE 304 SPECIFICATIONS
Carbon	0.03	0.03	0.03	0.030 max	0.08 max
Silicon	0.39	0.42	0.44	0.75 max	0.75 max
Manganese	1.65	1.66	1.67	2.00 max	2.00 max
Phosphorus	0.026	0.026	0.027	0.045 max	0.045 max
Sulfur	0.002	0.001	0.002	0.030 max	0.030 max
Chromium	18.23	18.14	18.26	18.00 – 20.00	18.00 – 20.00
Molybdenum	0.42	0.42	0.41	-----	-----
Nickel	8.13	8.04	8.02	8.00 – 12.00	8.00 – 10.50
Aluminum	< 0.01	< 0.01	< 0.01	-----	-----
Cobalt	0.16	0.16	0.16	-----	-----
Copper	0.49	0.49	0.51	-----	-----
Niobium	< 0.01	< 0.01	< 0.01	-----	-----
Titanium	< 0.01	< 0.01	< 0.01	-----	-----
Vanadium	0.07	0.07	0.07	-----	-----
Tungsten	0.04	0.04	0.05	-----	-----
Lead	< 0.01	< 0.01	< 0.01	-----	-----
Iron	Remainder	Remainder	Remainder	Remainder	Remainder

NOTES: Plate #1 meets the chemical requirements of SAE 304/304L Stainless Steel.



5/29/09

Jacob M. Goran
Analytical Chemist



5/29/09

David Zauler
Senior Chemist



ISO 17025
Mechanical 1140-03
Chemical 1140-04

All procedures were performed in accordance with the IMR Quality Manual, current revision, and related procedures. The information contained in this test report represents only the material tested and may not be reproduced, except in full, without the written approval of IMR Metallurgical Services. IMR Metallurgical Services maintains a quality system in compliance with the ISO/IEC 17025:2005 and is accredited by the American Association for Laboratory Accreditation (A2LA), certificates #1140.03 and #1140.04. IMR Metallurgical Services' liability to the customer or any third party is limited to the amount charged for services provided. All samples will be retained for a minimum of 60 days and may be destroyed thereafter unless otherwise specified by the customer. The recording of false, fictitious, or fraudulent statements or entries on this document may be punished as a felony under federal statutes.

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CHEMICAL ANALYSIS IN WEIGHT PERCENT

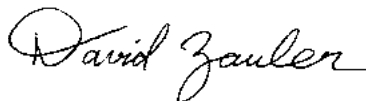
ELEMENT	Plate #2 Area #1	Plate #2 Area #2	Plate #2 Area #3	SAE 304L SPECIFICATIONS	SAE 304 SPECIFICATIONS
Carbon	0.02	0.02	0.02	0.030 max	0.08 max
Silicon	0.48	0.48	0.53	0.75 max	0.75 max
Manganese	1.42	1.42	1.41	2.00 max	2.00 max
Phosphorus	0.028	0.028	0.030	0.045 max	0.045 max
Sulfur	0.005	0.004	0.007	0.030 max	0.030 max
Chromium	18.13	18.15	18.14	18.00 – 20.00	18.00 – 20.00
Molybdenum	0.21	0.20	0.22	-----	-----
Nickel	8.06	8.07	8.05	8.00 – 12.00	8.00 – 10.50
Aluminum	< 0.01	< 0.01	< 0.01	-----	-----
Cobalt	0.16	0.16	0.16	-----	-----
Copper	0.29	0.29	0.29	-----	-----
Niobium	< 0.01	< 0.01	< 0.01	-----	-----
Titanium	< 0.01	< 0.01	< 0.01	-----	-----
Vanadium	0.08	0.08	0.08	-----	-----
Tungsten	0.03	0.03	0.04	-----	-----
Lead	< 0.01	< 0.01	< 0.01	-----	-----
Iron	Remainder	Remainder	Remainder	Remainder	Remainder

NOTES: Plate #2 meets the chemical requirements of SAE 304/304L Stainless Steel.



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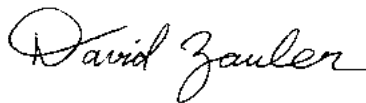
ELEMENT	Plate #3 Area #1	Plate #3 Area #2	Plate #3 Area #3	SAE 304L SPECIFICATIONS	SAE 304 SPECIFICATIONS
Carbon	0.02	0.02	0.01	0.030 max	0.08 max
Silicon	0.58	0.57	0.56	0.75 max	0.75 max
Manganese	1.38	1.38	1.40	2.00 max	2.00 max
Phosphorus	0.028	0.028	0.028	0.045 max	0.045 max
Sulfur	0.005	0.005	0.005	0.030 max	0.030 max
Chromium	18.08	18.05	18.11	18.00 – 20.00	18.00 – 20.00
Molybdenum	0.23	0.23	0.23	-----	-----
Nickel	8.04	8.07	8.01	8.00 – 12.00	8.00 – 10.50
Aluminum	< 0.01	< 0.01	< 0.01	-----	-----
Cobalt	0.16	0.16	0.16	-----	-----
Copper	0.32	0.34	0.32	-----	-----
Niobium	< 0.01	< 0.01	< 0.01	-----	-----
Titanium	< 0.01	< 0.01	< 0.01	-----	-----
Vanadium	0.08	0.08	0.08	-----	-----
Tungsten	0.05	0.04	0.05	-----	-----
Lead	< 0.01	< 0.01	< 0.01	-----	-----
Iron	Remainder	Remainder	Remainder	Remainder	Remainder

NOTES: Plate #3 meets the chemical requirements of SAE 304/304L Stainless Steel.



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