



GLORIA MATERIAL TECHNOLOGY CORP.
INSPECTION CERTIFICATE



Messrs: Ryerson Canada Inc.
Order No.: 2020005865-14
File No.: 2021000579-A
Grade: 316/316L
Size: 4"
Heat-Lot No.: SL0571-K0
Condition: HF-Solution Annealed-Ground

P.O.No.: 4501051013
Date: 02/25/2021
Weight: 492KG 1084.67LB
P'cs: 2

Chemical Composition (wt%)							
	C	Si	Mn	P	S	Ni	Cr
Min.						10.00	16.00
Max.	0.030	1.00	2.00	0.045	0.030	14.00	18.00
Result	0.018	0.29	1.63	0.033	0.025	10.74	16.70
	Mo	Ni+2Mo	PREN				
Min.	2.00	14	23				
Max.	3.00	20	28				
Result	2.14	15	24				

Mechanical Properties Spec.

	Hardness	Grain Size
		ASTM E112
Spec.Min.	1/2R	T
Spec.Max.	237HBW	3
Result	151HBW	7

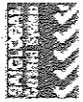
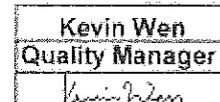
Corrosion Test
ASTM A262 PRACTICE E

Spec.Max.
Result OK

Tensile Test

	Elongation(A)	Tensile Strength(Rm)	Yield Strength(0.2% Rp)	Reduction of Area(Z)
	Solution	Solution	Solution	Solution
	1/2R L	1/2R L	1/2R L	1/2R L
	(Ave)	(Ave)	(Ave)	(Ave)
Unit	%	PSI	PSI	%
Min.	40	75000	30000	50
Max.		115000		
Result	59	80000	36600	76

REDUCTION RATIO: Min 5.0:1

AS 9100
Aerospace
QualityISO 9001
QualityHeat Treating
Material Testing Laboratory
Nondestructive Testing

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Our quality and environment management systems have been certified by AS9100, ISO9001 QMS, ISO14001 EMS, OHSAS18001 OHS&S, and NADCAP.

We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification. Inspection Certificate comply with EN 10204 3.1.



台灣台南市新營區新中路35號 / NO.35, HSIN CHUNG RD., HSIN YING, TAINAN, TAIWAN

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<http://www.gmtc.com.tw>

Provided by CPA

www.flowconditioner.com, info@cpa.ca



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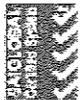
ACTUAL REDUCTION RATIO: 10.8:1

Specification:

1. RY316SA REV.4
2. NACE MRO175/ ISO 15156(EXCEPT H2S TEST AND SURFACE HARDNESS)

Remark:

1. MELTING PROCESS : EAF+LHF+VOD OR EAF+AOD
2. PASSED INTERGRANULAR CORROSION TEST PER ASTM A262 PRACTICE E.
3. ULTRASONIC TESTED CONFORM TO API6A.
4. MATERIAL IS MERCURY FREE.
5. NO WELDING OR WELD REPAIR STATEMENT.
6. SOLUTION ANNEALING WITH CONDITION A OF ASTM A479. (1040 DEGREE C MINIMUM AND WATER QUENCHED.)
7. FINISHED CONDITION TO BE REPORT.
8. SOLUTION TREATMENT AT 1040 DEGREE C(1900 DEGREE F) MINIMUM AND LIQUID QUENCHED.



AS 9100
Aerospace



ISO 9001
Quality



Heat Treating
Material Testing Laboratory
Nondestructive Testing

Kevin Wen Quality Manager
<i>Kevin Wen</i>

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