

INSPECTION CERTIFICATE



SUMITOMO METAL INDUSTRIES LTD.
NAOETSU WORKS

ADDRESS: No.2-12-1, MINATOCHO, JOETSU CITY,
NIGATA PREF. JAPAN

Customer: RTI INTERNATIONAL METALS LTD.

NAR STAINLESS STEEL
ST TITANIUM

Date: SEP. 24, 2012.

34

P.O.No. RMI-3453-A

Specification & Type	AMS4902J	Condition & Finish	2B	Inspection No.	Heat No.	Inspection
Case No.	361	Quantity	36	Mass	1,001	11AN502
End. Dim. : Test	2.500X 1000.0	kg	1,001	Inspection No.	DD43498	GOOD
Test : Spec	I 2500.0	g	1,001	Heat No.		

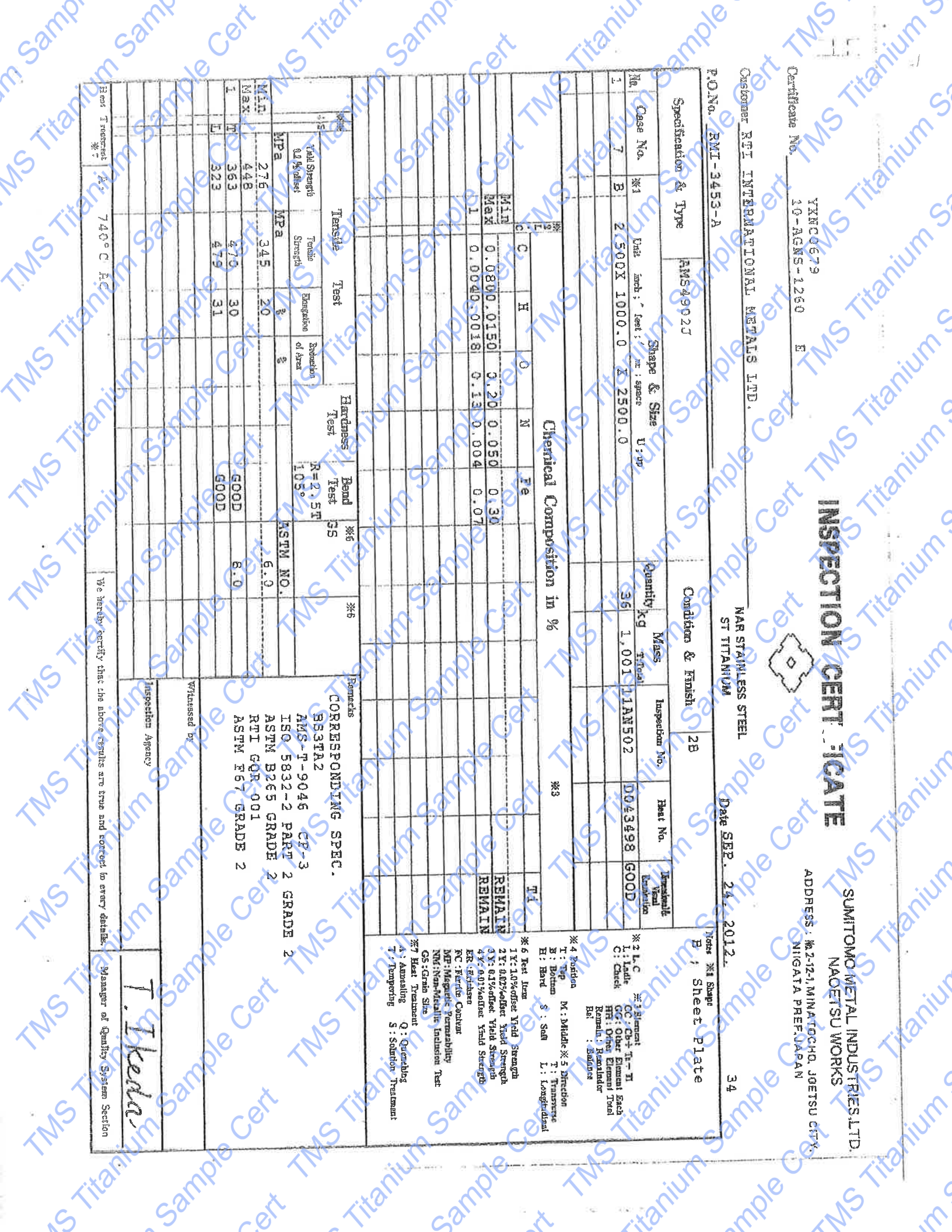
Shape & Size	U: W	Chemical Composition in %	*3	T: I
MIN	C	H	O	N
Max	0.0800	0.0150	0.20	0.050
	0.0040	0.0018	0.130	0.004
				0.07
				0.30

Yield Strength	Tensile Strength	Elongation	Reduction of Area	Hardness Test	Bend Test	*5	*6	Remarks
MPa	MPa	%	%		R=2.5T 105°	SS	ASTM NO.	
MIN	276	34.5	20				5.0	
Max	448	47.0	30				GOOD	
I	363	47.0	31				GOOD	
L	323	47.9	31				8.0	

Corresponding Spec.
 SS316A2
 AMS-T-9046 CP-3
 ISO 5832-2 PART 2 GRADE 2
 ASTM B265 GRADE 2
 RTI GQR 001
 ASTM F67 GRADE 2

Witnessed by: _____
 Inspection Agency: _____
 Manager of Quality System Section: **T. Ikeda**

Notes: *1 Shape P; *2 L.C. *3 Element; *4 Position M: Middle *5 Direction T: Top B: Bottom H: Hard S: Soft L: Longitudinal *6 Test Item 1X: 10% offset Yield Strength 2Y: 0.1% offset Yield Strength 3Y: 0.2% offset Yield Strength 4Y: 0.1% offset Yield Strength ER: Ericksen RC: Rockwell C hardness MF: Magnetic Permeability NM: Non-Metallic Inclusion Test GS: Grain Size *7 Heat Treatment A: Annealing Q: Quenching T: Tempering S: Solution Treatment



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 ADDRESS: #2-12-1, MINATOCHO, JOETSU CITY,
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Certificate No. YXN00579
 10-AGMS-1260 E

Customer RTI INTERNATIONAL METALS LTD.

MAR STAINLESS STEEL
 ST TITANIUM

Date SEP. 24, 2012.

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P.O.No. RMI-3453-A

Specification & Type AMS4902J

Condition & Finish 2B

Notes #1 Shape B ; Sheet Plate

Case No.	*1	Dist	inch	Test	mm	Spec	U:up	Quantity	kg	Mass	Inspection No.	Heat No.	Immunable
1	7	B	2,500X	1000.0	0	A	2500.0	36	1,001	11AN502	DD43498	GOOD	Remainder

Chemical Composition in %

	Min	Max	C	H	O	N	Fe
	0.0800	0.150	0.20	0.050	0.30		
	0.0040	0.018	0.130	0.004	0.07		

*2 L.C
 L: Lode
 C: Check
 *3 Element
 CC: Other Element Each
 HT: Other Element Total
 Reman: Remanlder
 Bal: Balance

Tensile Test	Yield Strength 0.2% Offset MPa	Tensile Strength MPa	Elongation % R	Reduction of Area %	Hardness Test	Bend Test R=2.5T 10.5°	ASTM NO.	Remarks
Min	276	345	20				6.0	
Max	448	470	30				GOOD	
1	363	479	31				GOOD	
1	323							

CORRESPONDING SPEC.

BS37A2
 AMS-T-9046 CP-3
 ISO 5832-2 PART 2 GRADE 2
 ASTM B265 GRADE 2
 RTI GOR 001
 ASTM E67 GRADE 2

Witnessed by

Inspection Agency

T. Ikeda

Manager of Quality System Section

We hereby certify that the above results are true and correct to every detail.

Heat Treatment 740° C PC