

VBMU-2349.



## VENUS WIRE INDUSTRIES PVT. LTD.

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**ISO: 9001:2000 CERTIFIED**      **INSPECTION / MILL/QUALITY CERTIFICATE**      No. BB/VW/2008-2009/3098  
 EN 10204 TYPE 3.1

<b>PRODUCT INFORMATION</b>	<b>CUSTOMER</b> : M/S. ASA ALLOYS	<b>GRADE</b> : AISI-316/316L
	<b>INVOICE NO.</b> : VW/1153/EXP/2008-2009	<b>HEAT NO</b> : VBMU-2349 ✓
	<b>PRODUCT FORM</b> : STAINLESS STEEL BRIGHT BARS	<b>QUANTITY</b> : 4001.39 LBS
	<b>DIMENSION</b> : 4 1/4" ANNEALED	<b>TOL.</b> : -0/+1/16"
	<b>IDENTIFICATION</b> : YJ 4126, YJ 4127,	E17924
<b>CONDITION</b> : SOL. ANNEALED, PEELED & POLISHED		

<b>CHEMICAL COMPOSITION</b>	<b>ELEMENTS</b>	C%	Si%	Mn%	P%	S%	Cr%	Ni%	Cu%	Mo%	N%	Nb%	Al%	CO
	<b>SPECIFIED</b>	MIN	---	---	---	---	16.00	10.00	---	2.00	---	---	---	---
	<b>MAX</b>	0.030	1.00	2.00	0.045	0.030	18.00	14.00	---	3.00	---	---	---	---
<b>RESULTS</b>	0.015	0.370	1.300	0.040	0.020	16.85	10.05	0.440	2.050	0.060	---	---	0.160	---

<b>MECHANICAL PROPERTIES</b>	<b>ELEMENT</b>	UTS (PSI)	YS (PSI)	R.A. (%)	ELONGATION (%)	HARDNESS (BHN)	
	<b>SPECIFIED</b>	MIN	70000	36000	40	30	140
	<b>MAX</b>	---	---	---	---	---	235
<b>RESULTS</b>	78691	45633	70	52	148	---	

**HEAT TREATMENT:** 1900°F SOLUTION ANNEALED SOAKING 06 HOURS WATER QUENCH.

**REMARKS**

- \* MATERIAL IS FREE FROM MERCURY AND RADIUM CONTAMINATION & PRODUCED WITHOUT OZONE DEPLETING SUBSTANCE.
- \* F/C CALIBRATION STANDARD BS STANDARD BS 2M 54:1991
- \* MATERIAL CONFORMS TO ASTM A-276-06; CONDITION ANNEALED : ASTM A484/A484M-06b; A-479/A479M-06a; CONDITION ANNEALED; ASME SA479/A79M-MAR.10,2000; A370-05; API 6A; NACE MR0175; UNS# S31600 & S31603.
- \* IGC TEST FOUND SATISFACTORY AS PER A262-02a PRACTICE E
- \* QTC SIZE 115.00 MM & PROLONGATION OF ACTUAL BAR.
- \* GRAIN SIZE : 7 AND FINER
- \* THE ABOVE MATERIAL IS TESTED AND CONFORMS TO CUSTOMERS SPECIFICATION.
- \* MICROSTRUCTURE FOUND SATISFACTORY.
- \* HARDNESS- 79 HRB
- \* MELTING PROCESS EAF CONVERTOR VOD.
- \* NO WELDING PERFORMED.
- \* HOT REDUCTION RATIO 1:6.02
- \* CUSTOMER ORDER NO. : 15565
- \* COUNTRY OF ORIGIN : INDIA

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE CUSTOMER'S REQUIREMENTS, NEEDS AND EXPECTATIONS. MECHANICAL TEST RESULTS ARE TAKEN RANDOMLY FROM THE LOT.

DATE : 19/11/2008



**WORK INSPECTOR**  
V.C.

**DOC.No. R/QAD/06,R3**

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 For any information / query please quote Invoice No. & TC No. / Invoice No. & Bundle No.