


99983

C 104064

**PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE**

<b>L</b>	Contract No.: 50005 TECHN.PROTOCOL № 210-11 SPEC.№ 1848/PO L42760 ASTM A182/A182M-10;ASME SA-182/SA-182M-10;ASTM A276-10;ASTM A314-08;ASTM A479/A479M-10;ASME SA-479/SA-479M-10;ASTM A484/A484M-10;AMS-QQ-S-763B-06 Cond.A; AMS 5648K-07;AMS 5653P-07;ASTM A193/A193M-10 GR B8M,CL1 ;ASME SA-193/SA-193M-10GR B8M,CL1;ASTM A320/A320M-08GR B8M,CL 1;ASME SA-320/SA-320M-10 GR B8M,CL 1;NACE MR 0175-03;NACE MR 0103-10	Sheets:6 Sheet: 6 DSRB4008-6 <b>QUALITY CERTIFICATE</b> EN10204/3.1 Nr.278455 PLANT ORDER № 8023401848
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 QMS Certified	<b>CUSTOMER</b> DSS INTERNATIONAL SA Switzerland Commodity code RB6L1300/DS	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel forged, pecked.Прутки из коррозионностойких (нержавеющих) сталей кованые, обточенные. <b>STEEL MAKING PROCESS: EAF+AOD</b> СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР Round 13.00in/330.20mm L=8.197R/2.50m; Grades: 316/F316/316L/F316L.	<b>QUANTITY:</b> 1bund Q-3889 lb/1764 kg (number of pcs)
			<b>Delivery condition</b> solution annealed :1900-2010° F(1040-1100°C)/water термообработка:закалка в воду

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N <sub>2</sub>		
REQUIRED	<.030	<1.00	1.25-2.00	<.040	.020-.030	16.00-18.00	10.00-14.00	2.00-3.00	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № 99983	.019	.34	1.43	.036	.024	16.94	10.25	2.07	.067	.26	.04	.10	.005	.08	.01	.024		

MECHANICAL PROPERTIES	Yield Strength, Ksi(N mm <sup>2</sup> ) Re (R <sub>eL</sub> )	Tensile Strength, Rm,ksi (N mm <sup>2</sup> )	Elongation A <sub>5</sub> %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	30(205)	75 (515)	45	50	140-223	100
EFFECTIVE	42.2(290)	85.4(587)	58	75	170	187

**TECHNICAL REQUIREMENTS:**  
 Macrostructure - GOOD  
 GRAIN SIZE: 5 to ASTM E 112-96(2004)  
 Nonmetallic inclusions ASTM E 45-05 (Method A)  


A	B	C	D
thin	thick	thin	thick
2.5	2.0	2.5	2.0
0.0	0.0	0.0	1.0

 ICC-ASTM A262-08 (practice E)-test: O.K.  
 Dimension/surface defects test, anti-mixing test - OK

Mechanical properties tested in state of delivery

US - testing	yes	Results: SEP 1921,group 3/class Cc - OK
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Radiation free; mercury free. No Weld or Weld repair.

Manufacturer: PJSC DNIPROSPETSSTAL  
 Date: 24.11.13 Manager of quality assurance department - V. Kapaieva Signed:   
 Zaporozhye  
 Made in Ukraine.

DSB6917010

MILL TEST REPORT  
 Customer: ASALB PO#:P033044 SO#:LATM02  
 Item:RB6L1300 Bundle:DSB6917010 Heat#:99983  
 This MTR contains 1 page (Page# 1)  
 MTR#:DSRB4008-6-GIF