




96885

MILL TEST REPORT

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MTR#: DSRB2160
Item#: RB6L1100 Bundle#: DS83938013 Heat#: 96885 |

	Contract No.: 50005 TECHN.PROTOCOL № 210-11 SPEC.№4043/PO L33892 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 5653F-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: 7 Sheet: 7 QUALITY CERTIFICATE EN10204.1 Nr.252564 PLANT ORDER № 8023404043																																								
 DSS International SA Switzerland Commodity code RB6L1100/DS QMS Certified	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованые, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электроплавочная печь + АКР Round 11.000in/279.40 mm L=4.530m/14.852 ft Grade: 316/F316/316L/F316L	QUANTITY: (number of pcs) 1bund Q-5004 lb/2270 kg Delivery condition solution annealed :1900-2010° F(1040-1100° C)/water термообработка: закалка в воду																																								
PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																																										
ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂																										
REQUIRED	<.030	<.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 № 96885	.019	.27	1.33	.036	.021	16.76	10.20	2.05	.042	22	.04	.14	.080	.10	.012	.0280																										
MECHANICAL PROPERTIES...	Yield Strength, Ksi(N/mm ²) Re (R ₁₂)	Tensile Strength, Rm,ksi (N/mm ²)	Elongation A ₅ %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J	TECHNICAL REQUIREMENTS: Macrostructure - GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> <td style="text-align: center;">C</td> <td style="text-align: center;">D</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> </tr> <tr> <td style="text-align: center;">2.5</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">1.0</td> </tr> </table> ICC-ASTM A262-08 (practice E)-test: O.K. Dimension/surface defects test, anti-mixing test - OK												A	B	C	D					thin	thick	thin	thick	thin	thick	thin	thick	2.5	2.0	2.0	2.0	0.0	0.0	1.0	1.0
A	B	C	D																																							
thin	thick	thin	thick	thin	thick	thin	thick																																			
2.5	2.0	2.0	2.0	0.0	0.0	1.0	1.0																																			
REQUIRED 30(205) 75 (515) 45 50 140-223 100																																										
EFFECTIVE 42(275) 81(557) 60 75 163 270																																										
Mechanical properties tested in state of delivery																																										
US - testing	yes	Results: SEP 1921.group 3/class Cc - OK					Manufacturer: PJSC DNIPROSPETSSTAL Date: 24.09.11 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																																			
Radiation free; mercury free. No Weld or Weld repair.																																										