

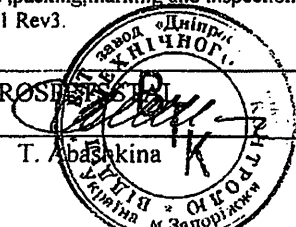


93134

	JSC DNEPROSPETSSTAL YUZHNOYE SHOSSE 69008, ZAPOROZHYE UKRAINE		Purchase order No.: 07149 TECHN.PROTOCOL № 210-06 SPEC №0686 068604-AG ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04; ASTM A479/A479M-04; ASTM SA-479/SA-479M-04; ASTM A484/A484M-05; AMS-QQ-S-765A-03 Cont.A; NACE MR 0175-2000; AMS 3648K-02; AMS 3653F-02; ASTM A193/A193M-04c GR B8M,CL1; (EXC. PAR 6.3) ASME SA-193/SA-193M-04GR B8M,CL1 (EXC. PAR 6.3) NACE MR0175	Sheets: 9 Sheet: 7 QUALITY CERTIFICATE EN10204/3.1 Nr.207670 PLANT ORDER № 8071490686																																																																						
CUSTOMER „DSS INTERNATIONAL SA <i>Switzerland</i>			PRODUCT DESCRIPTION <i>Rods of corrosion-resistant (stainless) steel hot rolled peeled on "Landgraf" line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные обточенные на линии «Ландграф».</i> STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР <i>Round 5.250in/133.35 mm L=3.80-5.80m</i> Grade: 316/F316/316L/F316L	QUANTITY: (number of pcs) 1bund Q-3329 lb/1510 kg Delivery condition <i>solution annealed : 1900-2010° F(1040-1100° C)/water</i> термообработка: заковка в воду																																																																						
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>ANALYSES, %</th> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>Al</th> <th>Cu</th> <th>V</th> <th>W</th> <th>Ti</th> <th>Co</th> <th>Nb</th> <th>N₂</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>REQUIRED</td> <td><.030</td> <td><1.00</td> <td>1.25-2.00</td> <td><.040</td> <td>.020-.030</td> <td>16.00-18.00</td> <td>10.00-14.00</td> <td>2.00-3.00</td> <td><.10</td> <td><.40</td> <td><.10</td> <td><.20</td> <td><.15</td> <td><.40</td> <td><.20</td> <td><.10</td> <td></td> <td></td> </tr> <tr> <td>CAST № 93134</td> <td>.020</td> <td>.44</td> <td>1.30</td> <td>.040</td> <td>.020</td> <td>16.82</td> <td>10.05</td> <td>2.04</td> <td>.048</td> <td>.27</td> <td>.04</td> <td>.08</td> <td>.080</td> <td>.079</td> <td>.011</td> <td>.036</td> <td></td> <td></td> </tr> </tbody> </table>																		ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂			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 № 93134	.020	.44	1.30	.040	.020	16.82	10.05	2.04	.048	.27	.04	.08	.080	.079	.011	.036		
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MECHANICAL PROPERTIES										TECHNICAL REQUIREMENTS: Macrostructure -- GOOD GRAIN SIZE : 5 to ASTM E 112 Nonmetallic inclusions ASTM E 45 (Method A) <table style="width: 100%; text-align: center;"> <tr> <td colspan="2">A</td> <td colspan="2">B</td> <td colspan="2">C</td> <td colspan="2">D</td> </tr> <tr> <td>thin</td><td>thick</td> <td>thin</td><td>thick</td> <td>thin</td><td>thick</td> <td>thin</td><td>thick</td> </tr> <tr> <td>2.5</td><td>2.0</td> <td>2.0</td><td>1.5</td> <td>0.0</td><td>0.0</td> <td>1.0</td><td>1.0</td> </tr> </table> ICC-ASTM A262-02a(Method E)-test: O.K. „Dimension/surface defects test,anti-mixing test – O.K. “ Ratio of reduction-18.67 NOTE: The customer confirms that the above stisted requirements to chemical composition, dimensions,mechanical properties ,packing,marking and inspection certificate comply with the specification SS1 Rev3.								A		B		C		D		thin	thick	thin	thick	thin	thick	thin	thick	2.5	2.0	2.0	1.5	0.0	0.0	1.0	1.0																																	
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Heat treatment (specimen)										Delivery condition: In state of delivery																																																																
US - testing		yes	Results: SEP 1921, 3/ Dd - O.K.							Manufacturer: JSC DNEPROSPETSSTAL Date: 18.02.08 Signed:  T. Abashkina Zaporozhyc Made in Ukraine.																																																																
Radiation free; mercury free. No Weld or Weld repair.																																																																										

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