



C258756

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	<p>Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№5030/PO47557 DIN EN 10088-3-05,DIN EN 10272-08,DIN EN 10222-5-00,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-10GR B8M,CL1; ASME SA-193/SA-193M-10 GR B8,CL 1 ;ASTM A320/A320M-08 GR B8M,CL 1;ASME SA-320/SA-320M-10 GR B8,CL1;NACE MR 0175-03;NACE MR 0103-10</p>	<p>INSPECTION CERTIFICATE EN10204/3.1 Nr.353009 PLANT ORDER № 8014905030</p>	
 <p>GMS Certified</p>	<p>CUSTOMER DSS INTERNATIONAL SA Switzerland</p>	<p>PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled.Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 17.000in/431.280 mm L=6.557 ft/2.000m L=6.557 ft/2.000m Grade: 316/316L/1.4401/1.4404</p>	<p>QUANTITY: 1bund Q-5344 lb/2424 kg (number of pcs) 1bund Q-5340 lb/2422 kg</p> <p>Delivery condition solution annealed :1940° F(1060° C)water 30minutes термообработка:закалка в воду</p>

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B
REQUIRED	<.030	<1,00	1.20-2.00	<.040	.015-.030	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A08024	.020	.40	1.27	.038	.027	16,86	10.31	2.08	.07	.30	.06	.04	.005	.11	.014	.027	.008	.0025

DIN EN 10002-1,ASTM A370-09										<p>TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 3 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A)</p> <table border="0"> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">A</td> <td colspan="2" style="text-align: center;">B</td> <td colspan="2" style="text-align: center;">C</td> <td colspan="2" style="text-align: center;">D</td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td>thin</td> <td>thick</td> <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></td> <td></td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>1.0</td> <td>0.0</td> <td>0.0</td> <td>1.0</td> <td>1.0</td> <td></td> <td></td> </tr> </table> <p>ICC-ASTM A262-08 (practice E)-test: O.K. Dimension/surface defects test, anti-mixing test – OK We acknowledge that the delivered products conform to the requirements of the order/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-6.5:1</p>												A		B		C		D						thin	thick	thin	thick	thin	thick	thin	thick	thin	thick			2.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0		
		A		B		C		D																																															
		thin	thick	thin	thick	thin	thick	thin	thick											thin	thick																																		
		2.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0																																														
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N /mm ²)		Elongation As % L Q In 2 inches (50mm) or 4D,min,% L		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J L Q																																														
REQUIRED	205	240	515-690		45 35	40	50	140-217	100	60																																													
EFFECTIVE	273	313	569		59 48	58	79	167	189 189 189	77 77 77																																													

Mechanical properties tested in state of delivery			<p>Date: 10.01.20 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dnipropetsstal" Phone number +380612834255 e-mail:info@dss.com.ua http://www.dss-ua.com</p>									
US - testing	yes	Results: ASTM A388/A388M-FBH1/5";EN 10228-4 type 1a;class 3:OK										
Radiation free; mercury free. No Weld or Weld repair.												



ANS