



SN 6347

L FOE 80

C326283

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

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 5267/PO53650 DIN EN 10088-3-05,DIN EN 10272-08,AD2000-Merkblatt W2;AD 2000-Merkblatt W10;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(EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8,CL 1(EXC PAR 7.3);NACE MR 0175-03;NACE MR 0103-10										Sheets:6 Sheet: 4							
 GMS Certified		<b>CUSTOMER</b> DSS INTERNATIONAL SA Switzerland										<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line.Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. <b>STEEL MAKING PROCESS:</b> EAF+AOD <b>СПОСОБ ВЫПЛАВКИ:</b> Электродуговая печь+АКР Round 6.500in/165.10 mm L=3.850/12.623ft L=4.890/16.033ft L=4.910/16.098ft <b>Grade: 316/316L/1.4401/1.4404</b>		<b>INSPECTION CERTIFICATE</b> EN10204/3.1 Nr. 379820 PLANT ORDER № 8014905267					
												<b>QUANTITY:</b> (number of pcs) 1bund Q-1490 lb/676 kg 1bund Q-1892 lb/858 kg 1bund Q-3787 lb/1718kg							
												Delivery condition solution annealed :1900 <sup>0</sup> F(1040 <sup>0</sup> C)water 30minutes термообработка:закалка в воду							
<b>ANALYSIS, %</b>		C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B
<b>REQUIRED</b>		<.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		
<b>CAST № A10923</b>		.025	.75	1.38	.038	.023	16.73	10.25	2.04	.072	.28	.05	.07	.005	.13	.015	.033	.010	.023
DIN EN 10002-1,ASTM A370-09																			
<b>MECHANICAL PROPERTIES</b>		<b>Yield Strength, (N/mm<sup>2</sup>)</b> R <sub>0.2</sub> R <sub>1.0</sub>		<b>Tensile Strength, R<sub>m</sub>, (N/mm<sup>2</sup>)</b>	<b>Elongation</b> A <sub>5</sub> % L Q In 2 inches (50mm) or 4D,min,% L		<b>Reduction of area, Z % L</b>	<b>Brinell Hardness HB</b>	<b>Impact strength, KV, J</b> L Q										
<b>REQUIRED</b>		205	240	515-690	45 35	40	50	140-217	100	60									
<b>EFFECTIVE</b>		273 275	291 294	546 549	59 49 59 49	57 57	73 73	163 163	198 198 198 196 196 196	64 64 64 63 63 63									
<b>Technical requirements:</b> 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 thin thick thin thick 2.0 ~ 2.0 2.0 1.0 0.0 0.0 1.0 1.0																			
<b>ICC-ASTM A262-08 (practice E)-test: O.K.</b>																			
<b>Dimension/surface defects test, anti-mixing test – OK</b>																			
<b>We acknowledge that the delivered products conform to the requirements of the order</b>																			
<b>Ratio of reduction-13.5:1</b>																			
<b>US - testing</b>		yes	<b>Results:</b> ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK																
<b>Radiation free; mercury free. No Weld or Weld repair.</b>																			
										Date: 31.08.2022 <b>Manager of quality assurance</b> department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospeksstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com									

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www.flowconditioner.com,info@cpacl.ca