




C238384

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 1897/PO45605 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: 5 INSPECTION CERTIFICATE EN10204/3.1 Nr. 343151 PLANT ORDER № 8014901897																														
	 GMS Certified		CUSTOMER DSS INTERNATIONAL SA Switzerland		PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peled on Landgraf line. Прутки из коррозионноустойчивых (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 7.25 in/184.15mm L=6.14m/20.131ft; L=6.16 m/20.197ft Grade: 316/316L/1.4401/1.4404										QUANTITY: (number of pcs) 1bund Q-2972lb/1348kg 1bund Q-2981 lb/1352kg																										
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 № A06953	.023	.44	1.41	.040	.026	16.84	10.27	2.06	.069	.28	.05	.07	.005	.10	.01	.031	.0088	.0021																							
DIN EN 10002-1, ASTM A370-09																																									
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z % L	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 border="1"> <thead> <tr> <th colspan="2">A</th> <th colspan="2">B</th> <th colspan="2">C</th> <th colspan="2">D</th> </tr> <tr> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> </tr> </thead> <tbody> <tr> <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> </tr> </tbody> </table> 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 Ratio of reduction-10.9:1 Manufacturer: PrJSC DNIPROSPETSSTAL Date: 04.03.19 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.								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
	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																																		
REQUIRED	205	240	515-690	45	35	40	50	140-217	100	60																															
EFFECTIVE	268	308	569	59	48	58	79	167	188 188 188	78 78 78																															
	270	310	566	59	48	58	79	167	189 189 189	79 79 79																															
Mechanical properties tested in state of delivery																																									
US - testing	yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK																																							
Radiation free; mercury free. No Weld or Weld repair.																																									

ANS