




21/74

HT# A06028

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																																											
	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№9071/PO43762 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00, 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; 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												Sheets:6 Sheet: 4																														
 GMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованы, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 8.500in/215.90 mm L=14.656 ft/4.470m L=14.000 ft/4.270m L=15.098 ft/4.605m Grade: 316/316L/1.4401/1.4404												QUANTITY: (number of pcs)		1bund Q-2945 lb/1336 kg 1bund Q-2817 lb/1278 kg 1bund Q-3047 lb/1382 kg																											
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 № A06028	.020	.45	1.35	.040	.026	16.88	10.32	2.07	.065	.32	.05	.05	.01	.11	.013	.023	.012	.0027																									
DIN EN 10002-1, ASTM A370-09																																											
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reducti on 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 style="width:100%; border-collapse: collapse;"> <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>1.5</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/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-8.3:1										A		B		C		D		thin	thick	thin	thick	thin	thick	thin	thick	2.0	1.5	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	1.5	2.0	1.0	0.0	0.0	1.0	1.0																																				
REQUIRED		205	240	515-690	45 35	40	50	140-223	100	60																																	
EFFECTIVE		269 273	300 303	569 566	59 48 59 48	58 58	79 79	167 167	181 181 181 185 185 185	71 71 71 75 75 75																																	
Mechanical properties tested in state of delivery																																											
US - testing		yes	Results: ASTM A388/A388M)-FBH1/8";EN 10228-4 type 1a;class 3:OK														Manufacturer:PrJSC DNIPROSPETSSTAL Date: 05.06.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																										
Radiation free; mercury free. No Weld or Weld repair.																																											