



C252860

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№3294/PO46349 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,CL1; ASTM A320/A320M-08 GR B8M,CL1; ASME SA-320/SA-320M-10 GR B8,CL1; NACE MR 0175-03; NACE MR 0103-10										Sheets:4		Sheet: 1																																	
		CUSTOMER DSS INTERNATIONAL SA Switzerland										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+AKP Round 18.750in/476.25 mm L=4.623 ft/1.410m L=6.328 ft/1.930m Grade: 316/316L/1.4401/1.4404					QUANTITY:		1bund Q-4524 lb/2052 kg (number of pcs)		1bund Q-6239 lb/2830 kg																										
 GMS Certified												Delivery condition solution annealed :1922 ⁰ F(1050 ⁰ C)water 42minutes термообработка:закалка в воду																																			
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 № A07342		.020	.53	1.36	.040	.026	16,75	10.25	2.10	.08	.31	.05	.06	.005	.10	.011	.033	.010	.0024																												
DIN EN 10002-1, ASTM A370-09																																															
MECHANICAL PROPERTIES		Yield Strength, (N/mm²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm²)		Elongation		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J		TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 6 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> <td style="text-align: center;">C</td> <td style="text-align: center;">D</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> </tr> <tr> <td style="text-align: center;">2.5</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">1.0</td> <td></td> <td></td> </tr> </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-7.5:1						A	B	C	D							thin	thick	thin	thick	thin	thick	thin	thick	thin	thick	2.5	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																								
2.5	2.0	2.0	1.0	0.0	0.0	1.0	1.0																																								
L		Q		L		Q																																									
REQUIRED		205	240	515-690	45 35	40	50	140-217	100	60																																					
EFFECTIVE		294	312	570	60 54	58	79	167	213 213 213	64 64 64																																					
Mechanical properties tested in state of delivery																																															
US - testing		yes	Results: ASTM A388/A388M-FBH1/5";EN 10228-4 type 1a;class 3:OK										Date: 13.09.19 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC "																																		
Radiation free; mercury free. No Weld or Weld repair.																																															
Dnipropetsstal" Phone number +380612834255 e-mail:info@dss.com.ua http://www.dss-ua.com																																															

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