




C24523

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 0111/PO44618 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										Sheets:4 Sheet: 3 INSPECTION CERTIFICATE EN10204/3.1 Nr.336960 PLANT ORDER № 8014900111																																								
	 GMS Certified	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+АКР Round 13.000in/330.20 mm L=10.262 ft/3.13 m; Grade: 316/316L/1.4401/1.4404										QUANTITY: 1bund Q-4859 lb/2204 kg (number of pcs)																																					
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 № A06284														.018	.45	1.29	.040	.025	16,78	10.30	2.06	.076	.33	.05	.07	.005	.12	.011	.028	.011	.0022																				
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 : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table style="width: 100%; border-collapse: collapse;"> <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 colspan="4"></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 colspan="4"></td> </tr> <tr> <td style="text-align: center;">3.0</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 colspan="4"></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-6.7:1								A	B	C	D					thin	thick	thin	thick	thin	thick	thin	thick					3.0	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																																										
3.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0																																												
REQUIRED		205	240	45 35	40	50	140-217	100	60																																										
EFFECTIVE		276	301	58 47	57	75	163	189 189 189	67 67 67																																										
Mechanical properties tested in state of delivery																																																			
US - testing		yes		Results: ASTM A388/A388M-FBIII/5";EN 10228-4 type 1a;class 3:OK										Manufacturer:PrJSC DNIPROSPETSSTAL Date: 16.08.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																																					
Radiation free; mercury free. No Weld or Weld repair.																																																			

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