




HT# A05970

C215982

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,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; <u>NACE MR 0175-03</u> ;NACE MR 0103-10											Sheets:5 Sheet: 5 INSPECTION CERTIFICATE EN10204/3.1 Nr.333842 PLANT ORDER № 8014909071																															
	 <p>GMS Certified</p>	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=5.574 ft/1.700m L=5.508 ft/1.680m Grade: 316/316L/1.4401/1.4404					QUANTITY: 1bund Q-5432 lb/2464 kg (number of pcs) 1bund Q-5379 lb/2440 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																																											
№ A05970	.018	.47	1.43	.040	.024	16,89	10.27	2.05	.077	.27	.04	.05	.005	.11	.01	.029	.0093	.0023																									
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		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" data-bbox="1240 922 1819 1008"> <tr> <td></td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>thin</td> <td>thin</td> <td>thin</td> <td>thin</td> <td>thin</td> <td>thin</td> <td>thin</td> <td>thin</td> <td>thin</td> </tr> <tr> <td>3.0</td> <td>2.0</td> <td>3.0</td> <td>2.0</td> <td>0.0</td> <td>0.0</td> <td>1.0</td> <td>1.0</td> <td></td> </tr> </table>									A	B	C	D					thin	thin	thin	thin	thin	thin	thin	thin	thin	3.0	2.0	3.0	2.0	0.0	0.0	1.0	1.0	
				A			B	C									D																										
	thin	thin	thin	thin	thin	thin	thin	thin									thin																										
3.0	2.0	3.0	2.0	0.0	0.0	1.0	1.0																																				
L	Q	L	Q	L	Q																																						
REQUIRED	205	240	45	35	40	50	140-217	100	60																																		
EFFECTIVE	282	318	561	60	55	59	167	218 218 218	61 61 61																																		
Mechanical properties tested in state of delivery																																											
US - testing		yes	Results: ASTM A388/A388M-FBH1/5";EN 10228-4 type 1a;class 3:OK																																								
Radiation free; mercury free. No Weld or Weld repair.																																											
Manufacturer:PrJSC DNIPROSPETSSTAL Date: 18.05.18 Manager of quality assurance department - V. Kapaeiva Signed:  Zaporozhye Made in Ukraine.																																											