



C 119360


PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE

	Contract No.: 20002 TECHN PROTOCOL № 390-11 SPEC.№ 5037/P034083-ED 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-10 GR 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 B8M, CL 1; NACE MR 0175-03; NACE MR 0103-10	Sheets: 5 Sheet: 2 INSPECTION CERTIFICATE EN10204/3.1 Nr.290138 PLANT ORDER № 8014905037
---	--	--

 GMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 5.250in/133.35 mm L=5.310m/17.410ft L=5.060m/16.590ft Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-2606 lb/1182 kg (number of pcs) 1bund Q-2540 lb/1152 kg Delivery condition solution annealed :1900° F(1040°C)water 30minutes термообработка:закалка в воду
--	--	--	--

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	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 № A01413	.022	.41	1.26	.034	.025	16,80	10.20	2.03	.062	.24	.06	.12	.005	.10	.019	.030	.010	.001

DIN EN 10002-1, ASTM A370-09										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%; text-align: center;"> <tr> <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>thick</td><td>thin</td><td>thick</td><td>thin</td><td>thick</td><td>thin</td><td>thick</td> </tr> <tr> <td>2.5</td><td>2.0</td><td>1.5</td><td>1.0</td><td>0.0</td><td>0.0</td><td>1.0</td><td>1.0</td> </tr> </table> ICC-ASTM A262-08 (practice E)-test: O.K. Dimension/surface defects test, anti-mixing test – OK										A	B	C	D					thin	thick	thin	thick	thin	thick	thin	thick	2.5	2.0	1.5	1.0	0.0	0.0	1.0	1.0
A	B	C	D																																								
thin	thick	thin	thick	thin	thick	thin	thick																																				
2.5	2.0	1.5	1.0	0.0	0.0	1.0	1.0																																				
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																																				
			A _s % L Q	In 2 inches (50mm) or 4D _{min} % L			I	Q																																			
REQUIRED	205	240	40	40	50	140-217	100																																				
EFFECTIVE	278 281	294 297	563 565	58 - 57 -	57 56	75 75	163 163	237 237 235 231 231 230																																			

US - testing	yes	Results: ASME SA-388/SA-388M-10(ASTM A 388/A 388M-09)-FBH1/8";EN 10308 type 1a;class 3:OK	Manufacturer: PJSC DNIPROSPETSSTAL Date: 12.11.14 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhyc Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.			

ANS