



C 49351


PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 5037/P034083-BD 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-10GR B8M, CL1 (EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8, CL 1 (EXC PAR 7.3); NACE MR 0175-03; NACE MR 0103-10	Sheets: 6 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr.289383 PLANT ORDER № 8014905037
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 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: BAF+AOD; СПОСОБ ВЫПЛАВКИ: Электродуговая печь+AKP Round 5.000in/127.00 mm L=4.970m/16.295ft L=5.070m/16.623ft Grade: 316/316L/1.4401/1.4494	QUANTITY: 1bund Q-3395 lb/1540 kg (number of pcs) 1bund Q-3413 lb/1548 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 № A01387	.024	.48	1.37	.038	.021	17,21	10.23	2.10	.065	.30	.05	.11	.006	.06	.014	.025	.011	.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>2.5</td><td>2.0</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	2.5	2.0	0.0	0.0	1.0	1.0
A	B	C	D																																								
thin	thick	thin	thick	thin	thick	thin	thick																																				
2.5	2.0	2.5	2.0	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		Reducti on of area, Z % L	Brinell Hardness HB	Impact strength, KV, J																																			
	L	Q		A ₅ % L	In 2 inches (50mm) or 4D, min, % L			L	Q																																		
REQUIRED	205	240	515-700	40 -	40	50	140-217	100																																			
EFFECTIVE	273 275	296 302	590 596	61 - 60 -	59 59	77 75	174 174	213 205 210 210 213 215																																			

US - testing	yes	Results: ASME SA-388/SA-388M-10 (ASTM A 388/A 388M-09)-FBH1/8"; EN 10308 type Ia; class 3:OK	Manufacturer: PJSC DNIPROSPETSSTAL Date: 22.10.14 Manager of quality assurance department - V. Kapaieva Signed: 
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Radiation free; mercury free. No Weld or Weld repair.

Zaporozhye
Made in Ukraine.