



HT# A05895

C214817

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 8683/PO43415-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-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: _____ Sheet: INSPECTION CERTIFICATE EN10204/3.1 Nr. 333373 PLANT ORDER № 8014908683
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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: EAF+AOD СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР Round 3.750in/95.25 mm L=4.150m/13.607ft L=4.110m/13.475ft L=5.590m/18.328ft L=5.590m/18.328ft Grade: 316/316L/1.4401/1.4404	QUANTITY: (number of pcs) 1bund Q-538 lb/244 kg 1bund Q-534 lb/242 kg 1bund Q-4308 lb/1954 kg 1bund Q-728 lb/330 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	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 № A05895	.017	.43	1.30	.040	.025	16.89	10.41	2.07	.08	.12	.05	.15	.005	.12	.011	.030	.008	.0029

DIN EN 10002-1,ASTM A370-09										TECHNICAL REQUIREMENTS:																																																								
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		Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table border="1"> <tr> <th>A</th><th>B</th><th>C</th><th>D</th><th>A</th><th>B</th><th>C</th><th>D</th><th>A</th><th>B</th><th>C</th><th>D</th><th>A</th><th>B</th><th>C</th><th>D</th> </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><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>3.0</td><td>2.0</td><td>2.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>1.0</td><td>1.0</td><td></td><td></td><td></td><td></td><td></td><td></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									A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	thin	thick	thin	thick	thin	thick	thin	thick	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			A	B										C	D	A	B	C	D	A	B	C	D																																						
thin	thick	thin	thick	thin	thick	thin	thick	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	515-690	40 -	40	50	140-217	100	-																																																									
EFFECTIVE	305 300	347 346	558 553	60 - 59 -	58 58	77 77	163 163	202 202 202 208 208 208	- -																																																									

Mechanical properties tested in state of delivery		
US - testing	yes	Results: ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK
Radiation free; mercury free. No Weld or Weld repair.		Manufacturer:PrJSC DNIPROSPETSSTAL Date: 03.05.18 Manager of quality assurance department - V. Kapaieva Signed: _____ Zaporozhye Made in Ukraine.