



C193607


**PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE**

	Contract No.: 20002 TECHN.PROTOCOL № 210-11 SPEC.№ 4655/P04755 ASTM A182/A182M-15;ASME SA-182/SA-182M-13;ASTM A276-15;ASTM A314-15;ASTM A479/A479M-15;ASME SA-479/SA-479M-13;ASTM A484/A484M-15;AMS-QQ-S-763D-15 Cond.A; AMS 5639H-07;AMS 5647J-11;ASTM A193/A193M-15a GR B8,CL1 (EXC PAR 6.2);ASME SA-193/SA-193M-13 GR B8,CL1(EXC PAR 7.3);ANSI/NACE MR0175/ISO 15156-3-15;NACE MR 0103-12	Sheets:4                      Sheet: 3 INSPECTION CERTIFICATE EN10204/3.1 Nr.319751 PLANT ORDER № 8015204655
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 GMS Certified	<b>CUSTOMER</b> DSS INTERNATIONAL SA Switzerland	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line.Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии «Ландграф». <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+AOP</b> Round 6.250in/158.75mm L=3.930m/12.885 ft L=3.580-3.890m/11.738-12.754 ft Grade: 304/F304/304L/F304L	QUANTITY: 1bund Q-4189 lb/1900 kg (number of pcs) 1bund Q-2659 lb/1206 kg  Delivery condition solution annealed :1900-2010° F(1040-1100° C)/water термообработка:закалка в воду
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ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N		
REQUIRED	<.030	<1.00	1.25-2.00	<.040	.020-.030	18.00-20.00	8.00-10.50	<.30	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A04562	.023	.46	1.56	.034	.026	18,26	8.20	.24	.062	.23	.05	.09	.008	.07	.011	.069		

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm <sup>2</sup> ) Re (R <sub>0.2</sub> )	Tensile Strength, Rm,ksi (N/mm <sup>2</sup> )	Elongation ASTM A370-09 In2inches (50mm) or 4D	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J	TECHNICAL REQUIREMENTS:
REQUIRED	30(205)	75 (515)	45	50	140-223	100	Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) A                      B                      C                      D thin thick thin thick thin thick thin thick 2.0 1.5 2.0 1.0 0.0 0.0 1.0 1.0 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 Ratio of reduction-15.1:1
EFFECTIVE	40.9(281)	82.7(568)	59	73	167	210	
Mechanical properties tested in state of delivery							

US - testing	yes	Results: SEP 1921,group 3/class Dd - OK	Manufacturer: PJSC DNIPROSPETSSTAL Date: 21.04.17 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.			

ANS