

IPC

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DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

QMS Certified

Contract No.: 07339
 TECHN.PROTOCOL № 267-07 SPEC.№ 3730/P00922
 ..AD 2000-Merkblatt WO/TRD 100,97/23/EG(DGRL)"
 "DIN EN 10088-3,DIN EN 10272,ASTM A182/A182M-05,ASME SA-182/SA-182M-04,ASTM A276-04,ASTM A479/A479M-04,
 ASME SA-479/SA-479M-04,ASTM A484/A484M-05,AMS-QQ-S-763A-03,QQS-763F, Cond.A,NACE MR 0175-2003,
 AMS 5648K-02,AMS 5653F-02,ASTM A193/A193M-04c GR B8M,CL 1 D,ASME SA-193/SA-193M-04 GR B8M,CL 1D"

Sheets:5 Sheet: 2
 QUALITY CERTIFICATE EN10204/3.1Nr.223841
 PLANT ORDER № 8073393730

CUSTOMER
 „DSS INTERNATIONAL SA“
 Switzerland

PRODUCT DESCRIPTION
 Rods of corrosion-resistant (stainless) steel forged, peeled .
 Прутки из коррозионностойких (нержавеющих) сталей кованные,обточенные.
STEEL MAKING PROCESS: Electric furnace
СПОСОБ ВЫПЛАВКИ: Электродуговая печь
 Round 228.60 mm/9.00in L=5.38m/17.64 ft
 Grade: 316/316L/1.4404

QUANTITY: 1bund Q-3990 lb/1810 kg
 (number of pcs)
Delivery condition
 Heat-treated (solution annealing 1020-1100° water)
 С термич.обраб.(закалка в воду 1020-1100°)

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	Sn	B
REQUIRED	<.030	<1,00	1.25-2.00	<.040	<.030	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № 94111	.025	.36	1.36	.039	.023	16.77	10.03	2.00	.070	.26	.03	.10	.122	.076	.010	.032	.007	.0015

T.19B

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R1.0%		Tensile Strength, Rm. (N/mm ²)	Elongation A ₅ % L Q		Reduction of area, Z % L Q		Brinell Hardness HB	Impact strength, KV, J		
	L	Q		L	Q	L	Q		L	Q	Q
REQUIRED	205	240	515-690	40		50		Max 215	100		
EFFECTIVE	240	272	523	61		73,5		156	219	217	210

TECHNICAL REQUIREMENTS:
 Macrostructure – GOOD
 GRAIN SIZE : 5 to ASTM E 112
 Nonmetallic inclusions ASTM E 45 (Method A)

A	B	C	D
thin	thick	thin	thick
2,0	1,5	1,5	1,0
0	0	0	1,0

 ICC-DIN 50914(EN 114,EN ISO 3651-2)-test: O.K.
 "Anti-mixing test-O.K."
 „Dimension test and surface defects test is scmplished “

Mechanical properties tested in state of delivery

US - testing yes Results: SEP 1921,3/Ce-O.K.

Radiation free; mercury free; No Weld or Weld repair.

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 16.06.09 Signed: _____
 Zaporozhye
 Made in Ukraine.



ANS