

96830

ASA PO 77168 WO 5734/5 CIA 4 FOE 40/80

198"



QMS Certified



DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

Purchase order No.: 50005

TECHN.PROTOCOL № 390-11 SPEC.№ 3756/P012906-TO

DIN EN 10088-3-05, DIN EN 10272-08, AD 2000-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 B8, CL1; NACE MR 0175-03; NACE MR 0103-10

EN10204/3.1

Sheets: 8 Sheet: 3
QUALITY CERTIFICATE Nr.252020
 PLANT ORDER № 8014903756

gh
 5/22/12

CUSTOMER
 „DSS INTERNATIONAL SA“
 Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 6.250in/158.75 mm L=3.50-5.50m/11.48-18.03ft
 Grade: 316/316L/1.4401/1.4404

QUANTITY:
 (number of pcs) 1bundQ-1720 lb/780 kg

Delivery condition
 solution annealed :1900° F (1040° C) water 30minutes
 термообработка: закалка в воду

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	Sn	B
REQUIRED	<.030	<1,00	1.20-2.00	<.040	.015-.030	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
HEAT № 96830	.025	.47	1.25	.037	.023	16,75	10.16	2.06	.074	.22	.04	.10	.11	.08	.01	.031	.0077	.0013

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R 0.2 % R1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduct ion 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	L
REQUIRED	205	240	515-700	40	40	50	140-223	100		
EFFECTIVE	273	309	561	58	56	77	167	272	263	260

TECHNICAL REQUIREMENTS:
 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
3.0	2.0	3.0	2.0
0.0	0.0	1.0	1.0

 ICC-ASTM A262-08(practice E)-test: O.K.
 „Dimension/surface defects test, anti-mixing test – O.K. “

Mechanical properties tested in state of delivery

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: 04.09.11 Signed: _____

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

Zaporozhye
 Made in Ukraine.

V.Kapaieva

0013685-0

SV
 III