

95327

022250



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

EN 10002-1

Sheets/6
 QUALITY CERTIFICATE No. 238509
 PLANT ORDER № 8033900637

Sheet: 3
 EN 10002-1

QUANTITY:
 (number of) pcs) 1bund. Q-1810 kg.

Delivery condition
 Heat-treated (solution annealing 1000°C water 16minutes)
 С термом. оброб. (нагрівання в воді 1000°С 16хв.)

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel, forged peeled.
 Прутки із корозійностійких (нержавіючих) сталей, кованих обривчастіми.

STEEL MAKING PROCESS: Electric furnace
 СПОСОБ ВЪПЛАВКИ: Электродуговая печь

Round 9.00in/228.60 mm L=5.37m
 Grade: 316L/1.4404

CUSTOMER
 "DSS INTERNATIONAL SA"
 Switzerland

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	Sn	B
REQUIRED	<.030	<.100	1.20-2.00	<.045	.015-.030	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
HEAT № 95327	.030	.30	1.30	.038	.028	16,76	10,09	2,06	.062	.23	.06	.10	.13	.07	.012	.031	.0074	.0011

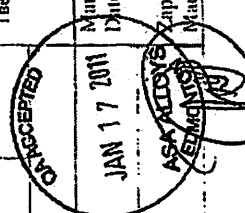
MECHANICAL PROPERTIES	Yield Strength, N/mm ² (ksi)		Tensile Strength, Rm, N/mm ² (ksi)	Elongation		Reduction of area, %	Impact strength, KV _J	Brinell Hardness HB
	R0.2% R.L.O.S	R0.2% R.L.O.S		A, %	L			
REQUIRED	205	240	515-690	45	35	40	60	Max 215
EFFECTIVE	295 (43)	327 (48)	576 (85)	60	48	-	100	167

TECHNICAL REQUIREMENTS:
 Macrostructure - GOOD
 GRAIN SIZE: 5 to ASTM E 112
 Nonmetallic inclusions ASTM E 45 (Method A)
 thin thick thin thick thin thick thin thick
 2.0 2.0 2.0 1.0 0.0 0.0 1.0 1.0
 ICC-EN ISO 3651-2(EN 114, ASTM A262, method E)-test: O.K.
 "Anti-mixing test-O.K."
 "Dimension test and surface defects test is accomplished"
 "Ізправлено в електродуговій печі в стані нагрівання 140-241HB-165"

MANUFACTURER: JSC DNEPROSPETSSTAL
 Date: 05.10.10 Signed:

MECHANICAL PROPERTIES TESTED IN STATE OF DELIVERY
 Results: DIN EN 10228-4 type 1, class 3.0.K.
 "ASME SA-388/SA-388M" "ASTM A388/A388M" "FH11 1/5"

US - testing
 Radiation free; mercury free. No Weld or Weld repair.



ASA KALONIS Zaporozhye
 Made in Ukraine