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INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
 (A03) DOCUMENT NUMBER 2010029617
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030496

(A06) CUSTOMER :
 (A07) CUSTOMER'S ORDER :
 (A01) MANUFACTURER'S WORKS :
 (A05) PRODUCER OF THE DOC :
 (A08) MANUFACTURER'S WORKS ORDER NO: 5121 / 20 (A04) MARK OF THE MANUFACTURER :
 QUALITY DEPARTMENT

SPECIFICATION : STOCKERARENZ TECHNICAL RULE : AD2000-W2
 (B01) PRODUCT : SRE ROUGH GROUND ROUND BARS TOLERANCE : ISOH2
 (B03) SURFACE FINISH : 2G
 (B04) PRODUCT DELIVERY CONDITION : RS SOLUTION TREATED
 (B05) PRODUCT DIMENSIONS (mm): 40,000 (B10) LENGTH (mm) 63000 / 03100
 (B02) GRADE : AISI 316L INCO316L INTERNAL GRADE : F316L 1.4404
 (B06) IDENTIFICATION HEAT NO: 072063 (B07) IDENTIFICATION LOT NO.: 256320
 (B08) MARKING OF THE PRODUCT : 1.4401 4404 TEST PIECE N. : 632

REFERENCE NORMS: EN 10088-3, EN 10072, ASTM A276, ASTM A279, ASTM A193 BVM CLASS 1D, ASME SA193, AMS 5653P, AMS 5648K, NAUC FRG175, NACE MR0103.
 REFERENCE NORMS FOR CHEMICAL COMPOSITION ONLY: EN 10222-6, ASTM A182, ASME SA182, ASTM A494, ASTM A403, ASTM A314, AMS-QQ-S-763.
 THE PRODUCT IS CONFORMING TO THE CONTRACT AGREEMENT AND TO THE RULE AD2000-MERKBLATT R0/W2.
 STEELMAKING ARP + AOD + CONTINUOUS CASTING

ANALYSE CHEMICAL COMPOSITION - LADLE ANALYSIS ACCORDING ASTM E1019-E1086-E415
 Control lot No. - Weight (Kg) : 020000358034 3.800,000
 ELEMENTS OBTAINED C Si Mn P S N Cr Mo Ni Cu
 ELEMENTS OBTAINED 0,017 0,38 1,83 0,030 0,027 0,079 16,68 2,02 10,08 0,21
 ELEMENTS OBTAINED Co 0,08

HARDNESS TEST IN AS DELIVERED CONDITION
 Control lot No. - Weight (Kg) : 020000358203 3.805,000
 SPECIFICATION ENISO6506 HARDNESS TEST HB
 OBTAINED 188

IMPACT TEST IN AS DELIVERY CONDITION
 Control lot No. - Weight (Kg) : 030000388203 3.805,000
 SPECIFICATION EN 10048 (C02) DIRECTION OF THE TEST PIECE: L
 (C01) TYPE OF TEST PIECE KV
 (C03) TEST TEMPERATURE °C 20,0000
 MEASUREMENT UNIT
 OBTAINED 287 284 288 285 285 282 287 289 286 286



TENSILE TEST IN AS DELIVERY CONDITION

Control lot No. - Weight (Kg) :020000358203 3.808,000
 SPECIFICATION EN-ISO6892-1

(C02) DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	RM MPA	RP02 MPA	A5 %	Z %	RP1 MPA
OBTAINED	604	283	54,0	75,0	340
	599	275	54,2	75,0	332
	606	287	53,2	75,0	329
	609	293	52,5	75,0	334

TENSILE TEST

Control lot No. - Weight (Kg) :020000358203 3.808,000
 SPECIFICATION ASTM A370

(C02) DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	RMB KSI	RP02B KSI	ZB %	AL2B %
OBTAINED	88	41	75,0	59,0
	87	40	75,0	58,5
	88	42	75,0	58,1
	89	43	75,0	57,7

THE PRODUCT SATISFIES CE DIRECTIVES: 2000/53 2002/95 2003/11 - 2005/618 AND PRD 97/23/CE.

(C02) INSPECTOR'S STAMP LF

CORROSION TEST ACCORDING TO ASTM A262/C2A Practice.E. EN ISO 3651-2: SATISFACTORY.

EDDY CURRENT INSPECTION OF SURFACE ACCORDING TO EN 10277-1 Class.4: SATISFACTORY.

DIMENSIONAL CONTROL ACCORDING TO EN 10278 : SATISFACTORY. ULTRASONIC TEST ACCORDING TO EN 10308 Class.3, EQUIVALENT TO SEP 1920

GROUP 3 CLASS C (Class B per DIAM. >75mm) AND ASTM A388 FBH 5 (ONLY FOR SIZE >100mm): SATISFACTORY.

ANTIMIX TEST: SATISFACTORY.

NO WELDING REPAIR ON THE MATERIAL.

FREE FROM RADIOACTIVE CONTAMINATION.

MARKING: PRODUCER LOGO, MATERIAL NO., HEAT NO., LOT NR.

DOCUMENT ISSUED IN AGREEMENT WITH TUV BAYERN(11.1972) WAVING OF COUNTERSIGNING (SEE TUV BAYERN LETTER DATED 17.01.80).

Renunciation to the countersign of the technical organization in charge of the inspection (see letter TUV Bayern 17.01.80)