



INSPECTION CERTIFICATE

Certificato d'ispezione



REPORT N. Rapporto N.	TC-020442-17-0005	Issued on Revised on	20/11/2017	Customer Cliente	PROVEEDORA DE MATERIALES ANGER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	Job n. / Com. n.	20442	Page n. / Pagina n.	1
Revision Revisione	0	According to In accordo a	EN 10204:2004 UNI EN 10204:2005	Type Tipo	3.1	Purchase order and project/Ordine e progetto 7020			

DESCRIPTION / DESCRIZIONE

Test Prova	Item Pos.	Qty Qtà	Customer code Codice cliente	Material Materiale	Heat Colata	Product Prodotto
JLNL	55	5200		A/SA105-14	JLNL	TAP MACH THD 3000 A/SA105N 3/4
JLNN	59	2400		A/SA105-14	JLNN	TAP MACH THD 3000 A/SA105N 1

Test Prova	HEAT TREATMENT DATA Dettagli di trattamento termico	COUNTRY OF MELT Provenienza	RAW AND FORGING MATERIAL CERTIFICATES Certificati di acciaieria/lorgia
JLNL	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.		CERT.000164.EVASI*(VACUUM DEGASED STEEL)
JLNN	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.		CERT.2166.METALFAR(VACUUM DEGASED STEEL)CERT.422.SOLJVERI

Test Prova	Test loc. Preso a	Orient. Direz.	TENSILE TEST AT ROOM TEMPERATURE / Trazione a temperatura ambiente							CVN (KV) / Prova di resilienza					Bend [B] Flatt. [F] Piega Schiacc.	Hardness Durezza
			Specimen / Provino		Yield strength	Tensile strength	Elongation	JLNL Area	Dimens.	T	Abs. Energy	Shear A	Lat Exp			
			Shape Forma	A Sec. [mm ²] Lengh. [mm]	Snerv. [Mpa] Min:	Rottura [Mpa] Min:	Allung. [%] Min:	Contraz. [%] Min:	Dimens. [mm]	Temp. [°C]	Energia ass. [J]	Area d [%]	Esp. Lat. [mm]			
JLNL	T/2	TRANS	Round	31.500	25.000	323.600	507.900	38.700	73.600	10x10x55	-29	36-74-34	25-40-25	0.61-0.93-0.60	HBW 154-155	
JLNN	T/2	TRANS	Round	60.100	35.000	288.300	490.500	34.800	71.200	10x10x55	-29	65-32-31	40-20-20	0.87-0.60-0.58	HBW 144-145	

Test Prova	C	Si	Mn	S	P	Cr	Ni	Mo	Ti	Cu	V	Al	H	Nb	N	Sn	O	B	Fe	Zr	CE ^A	PREN ^B	X fact. ^C	J fact. ^D
JLNL	0.1640	0.2200	1.0360	0.0040	0.0080	0.1320	0.0920	0.0180	0.0100	0.1210	0.0030	0.0200	0.00016	0.0010	0.0117	0.0060	0.0015					0.3814		
JLNN	0.1900	0.2400	0.9400	0.0040	0.0090	0.1300	0.0800	0.0100	0.0180	0.1300	0.0020	0.0290	0.00023	0.0010	0.0088	0.0080	0.0012	0.0003				0.3890		

REMARKS / Note

1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3-Ed.2017	A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 B: PREN = Cr + 3.3Mo + 16N
2: MATERIAL ACCORDING TO ASME Sect. II Part A 2017 Edition.	C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
3: FULLY KILLED STEEL, FINE GRAIN TREATED.	D: J factor = ((Mn + Si) / (P + Sn)) x 10E4
Additional elements:	Quality inspector representative Ispettore controllo qualità
	Riccardo Scopsetti

This certificate is issued by a computerized system and it is valid with electronic signature. On the original certificate the trademark M.E.G.A. is printed in green color. Form QC-01-01 Rev. 0 2017-03-15