

M.E.G.A.

CLIENTE
Customer
Client

PROVEEDORA DE MATERIALES ANGER
SA DE CV
ALFONSO REYES 4030 NTE.
COL. DEL NTE. MONTERREY, N.L.

CERTIFICATO N. 570971 FOLIO 1
Certificate N. Sheet 1
Certificat N. Feuille
DATA / Date 08/06/10

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

ORDINE
Purchase order
Commande 244

COMMESSA 91349
Job N.
Confirmation de commande

PROVA Test Epreuve	MATERIALE Material / Matière	COLATA Heat / Coulée	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
KXTD	ASTM A105/05	08773751	0.185 --->	0.200 Nb% = 0.000	0.880 0.000	0.009 Sn% = 0.008	0.015	00.08	00.06	0.010	0.019	0.180	0.018	0.021 CEs = 0.331	0.369
NCNS	ASTM A105/03	12202	0.160 --->	0.230 Nb% = 0.000	0.940	0.007	0.009	00.10	00.12	0.020	0.000	0.200	0.000	0.026 CEs = 0.361	0.361
RFLR	ASTM A105/05	07775770	0.180 --->	0.230 Nb% = 0.000	0.870	0.005	0.013	00.12	00.05	0.010	0.000	0.150	0.000	0.025 CEs = 0.325	0.364
RCCN	ASTM A105/05	164605	0.182 --->	0.235 Nb% = 0.002	1.017	0.008	0.013	00.15	00.13	0.020	0.000	0.300	0.001	0.028 CEs = 0.351	0.414
PARU	ASTM A105/05	0835649/08	0.200 --->	0.250 Nb% = 0.0026	1.120	0.001	0.011	00.11	00.01	0.004	0.000	0.025	0.003	0.038 CEs = 0.3867	0.412
PTTR	ASTM A105/05	0876079	0.190 --->	0.250 Nb% = 0.001	0.930	0.008	0.012	00.08	00.06	0.010	0.017	0.180	0.017	0.022 CEs = 0.345	0.382

PROVA Test Epreuve	PROVETTA Test specimen / Epreuve		SNERVAMENTO MPa z Yield strength Limite d'élasticité	ROTTURA MPa z Tensile strength Rupture	ALLUNGAMENTO % z Elongation Allongement	CONTRAZIONE % z Reduction of area Striction	DUREZZA HB Hardness Dureté	PIEGA Bend test Pliage	SCHIACC. Flatt. test Aplattisse.	RESILIENZA Impact test / Résilience			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITA MIS. UM	TIPO Type	T. °C Test temp	VALORE / Value / Données
KXTD	1	30.6 25.0	319.0	532.0	29.4	67.3	149-156			J	KV	0	46-52-56
NCNS	1	30.6 25.0	318.0	540.0	28.2	66.6	156-163			J	KV	0	56-58-50
RFLR	1	30.6 25.0	302.0	509.0	31.8	68.2	143-149			J	KV	0	52-54-48
RCCN	1	30.6 25.0	311.0	533.0	29.4	65.9	156-163			J	KV	0	54-50-48
PARU	1	30.6 25.0	305.0	524.0	32.5	68.9	143-149			J	KV	0	42-44-46
PTTR	1	30.6 25.0	316.0	532.0	29.3	67.7	149-156			J	KV	0	48-56-50

PROVA Test Epreuve NOTE / Remarks / Notes ENI0204/3.1

* FORMA Shape / Forme : 1 = Ø 2 = □

KXTD	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.381.EVASI*554018 MEGA
NCNS	ELECT. FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT. 29.06 EVASI*530822 MEGA*
RFLR	ELECT. FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.59.EVASI*540261 MEGA*
RCCN	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9234.MEGA/I*540245 MEGA*
PARU	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10682.MEGA/I*567584MEGA
PTTR	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10761.MEGA/I*569153MEGA

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
KXTD	001	121		90 DEG. ELBOW S. 3000 NPT A/SA105N 1/4	OK
NCNS	001	47		90 DEG. ELBOW S. 3000 NPT A/SA105N 1/4	OK
RFLR	001	832		90 DEG. ELBOW S. 3000 NPT A/SA105N 1/4	OK
RCCN	002	500		90 DEG. ELBOW S. 3000 NPT A/SA105N 3/8	OK
PARU	003	1		90 DEG. ELBOW S. 3000 NPT A/SA105N 1/2	OK
PTTR	003	1699		90 DEG. ELBOW S. 3000 NPT A/SA105N 1/2	OK

NOTE / Remarks / Notes MATERIAL ACCORDING TO NACE MR01757-2003.

ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official

CAPO COLLAUDO Chief inspection DPT Responsable assurance qualité

DOC. CERT. M.E.G.A.
Emmanuel Centeneri