

# 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. 555445 FOLGIO 4  
Certificate N. Sheet  
Certificat N. Feuille  
DATA / Date 12/01/09

CERTIFICATO DI COLLAUDO  
TEST CERTIFICATE  
CERTIFICAT DE CONTROLE

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

ORDINE 225  
Purchase order  
Commande

COMMESSA 85820  
Job N.  
Confirmation de commande

PROVA Test Epreuve	MATERIALE Steel quality / Matière	COLATA Heat / Coulée	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
KBCC	ASTM A105/05	07735018	0.200 --->	0.230 Nb%= 0.000	0.990	0.010	0.013	00.08	00.06	0.010	0.000	0.180	0.013	0.025	0.401 CEs= 0.365
RRTN	ASTM A105/05	HEE*32767	0.200	0.200	1.060	0.018	0.016	00.13	00.05	0.010	0.010	0.150	0.000	0.000	0.417
RUND	ASTM A105/05	07779499	0.190 --->	0.190 Nb%= 0.000	0.890	0.007	0.012	00.08	00.05	0.010	0.020	0.130	0.017	0.020	0.371 CEs= 0.338
KCNL	ASTM A105/05	07770275	0.185 --->	0.210 Nb%= 0.000	0.860	0.008	0.014	00.11	00.06	0.020	0.016	0.180	0.019	0.029	0.374 CEs= 0.328
RBNN	ASTM A105/05	1T 24391	0.180 --->	0.210 Nb%= 0.000	0.900	0.010	0.010	00.06	00.10	0.020	0.000	0.250	0.000	0.029	0.369 CEs= 0.330
FDXF	ASTM A105/02	73920	0.190 --->	0.200 Nb%= 0.000	0.860	0.006	0.011	00.08	00.07	0.010	0.000	0.180	0.000	0.020	0.367 CEs=0.3333

PROVA Test Epreuve	PROVETTA Test specimen / Epreuve		SNERVAMENTO N/mm <sup>2</sup> ≥ Yield point Limite d'élasticité	ROTTURA N/mm <sup>2</sup> ≥ Tensile strength Rupture	ALLUNGAMENTO % ≥ Elongation Allongement	CONTRAZIONE % ≥ Reduction of area Striction	DUREZZA HB Hardness Dureté	PIEGA Bend test Pliage	SCHIACC. Flatt. test Aplattiss.	RESILIENZA Impact test / Résilience				
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longeur								UNITÀ MIS. Unit system	TIPO Type	T. °C Test tmp	VALORE / Value / Données	
KBCC	1	122.7	50.0	325.0	523.2	28.0	68.4	150-155			J	KV	0	92-106-108
RRTN	1	122.6	50.0	364.0	536.0	31.0	58.0	163-165						
RUND	1	122.1	50.0	366.0	535.2	29.2	58.2	150-158			J	KV	0	156-160-164
KCNL	1	60.1	35.0	302.0	520.0	31.0	68.0	140-149			J	KV	0	50-48-52
RBNN	1	30.6	25.0	335.0	541.0	28.1	63.4	157-167			J	KV	0	48-50-54
FDXF	1	30.6	25.0	304.0	522.0	32.6	68.5	149-152			J	KV	0	42-40-46

PROVA Test Epreuve NOTE / Remarks / Notes EN10204/3.1

FORMA Shape / Forme : 1 = ∅ 2 = □

KBCC	ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.420.CARLOTTO*549502MEGA*
RRTN	ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.3072.METALFAR*
RUND	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.37642.RIVA*544277MEGA*
KCNL	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.73.EVASI*548442MEGA*
RBNN	ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.30.EVASI*538942 MEGA*
FDXF	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.34.04 EVASI*241999 MEGA

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
KBCC	015	44		TEE S. 3000 NPT A/SA105N 3	OK
RRTN	015	26		TEE S. 3000 NPT A/SA105N 3	OK
RUND	036	500		CAP S. 3000 NPT A/SA105N 1	OK
KCNL	047	68		BUSHING M/F NPT A/SA105N 1.1/4x1	OK
RBNN	047	432		BUSHING M/F NPT A/SA105N 1.1/4x1	OK
FDXF	049	500		BUSHING M/F NPT A/SA105N 1.1/2x1.1/4	OK

NOTE / Remarks / Notes MATERIAL ACCORDING TO NACE MR0175/ 2003.

ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official

CAPO COLLAUDO Chief Inspection DP Responsable assurance qualité

DOC. CERT. M.E.G.A.