

FORMA P.001 Rev. 0 15-05-2009

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.
 Certificate N.
 Certificat N. **574671** **FOGLIO**
 Sheet **2**
DATA / Date **15/12/10**
COMMESSA
 Job N. **92487**
 Confirmation de commande

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
 WITH QUALITY SYSTEM
 CERTIFIED BY DNV
 ISO 9001

ORDINE
 Purchase order **246**
 Commande

PROVA Test Epreuve	MATERIALE Material / Matière	COLATA Heat / Coule	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
KTCD	ASTM A105/05	183353	0.163	0.237	1.042	0.005	0.014	00.10	00.23	0.044	0.000	0.210	0.001	0.036	0.396
			--->	Nb% = 0.003	Sn% = 0.010			B % = 0.000						CEs = 0.336	
PTBU	ASTM A105/09	0834830/08	0.200	0.280	1.060	0.007	0.010	00.13	00.02	0.015	0.000	0.040	0.004	0.042	0.411
			--->	Nb% = 0.0024										CEs = 0.3767	
UCBL	ASTM A105/09	08/76306	0.185	0.230	0.870	0.009	0.011	00.09	00.05	0.010	0.015	0.120	0.025	0.026	0.366
			--->	Nb% = 0.000	Sn% = 0.008									CEs = 0.330	
PRNU	ASTM A105/05	0834830/08	0.200	0.280	1.060	0.007	0.010	00.13	00.02	0.015	0.000	0.040	0.004	0.042	0.411
			--->	Nb% = 0.0024	B % = 0.000									CEs = 0.3767	
PTTR	ASTM A105/05	08/76079	0.190	0.250	0.930	0.008	0.012	00.08	00.06	0.010	0.017	0.180	0.017	0.022	0.382
			--->	Nb% = 0.001	B % = 0.000			Sn% = 0.010						CEs = 0.345	
PXNT	ASTM A105/09	0834830/08	0.200	0.280	1.060	0.007	0.010	00.13	00.02	0.015	0.000	0.040	0.004	0.042	0.410
			--->	Nb% = 0.0024										CEs = 0.3767	

PROVA Test Epreuve	PROVETTA Test specimen / Eprouvette		SNERGIAMENTO MPa _z Yield strength Limite d'élasticité	ROTTURA MPa _z Tensile strength Rupture	ALLUNGAMENTO % Elongation Allongement	CONTRAZIONE % Reduction of area Striction	DUREZZA HB Hardness Dureté	PNEA Bend test Pliage	SCHMACK Flat. test Aplatis.	RESISTENZA Impact test / Résistance			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITA' IMP. UM	TIPO Type	T. °C Test temp	VALORE / Value / Donnees
KTCD	30.6	25.0	294.0	501.0	32.4	71.3	143-149			J	KV	0	46-56-50
PTBU	122.6	50.0	305.0	523.0	32.3	69.6	140-156			J	KV	0	42-44-50
UCBL	30.6	25.0	302.0	527.0	31.9	69.2	149-152			J	KV	0	36-44-46
PRNU	30.6	25.0	315.0	533.0	29.2	66.9	149-156			J	KV	0	46-54-50
PTTR	30.6	25.0	316.0	532.0	29.3	67.7	149-156			J	KV	0	48-56-50
PXNT	30.6	25.0	299.0	525.0	32.2	69.2	137-149			J	KV	0	34-46-42

FORMA / Snap / Forms : 1 = 2 =

PROVA Test Epreuve	NOTE / Remarks / Notes
KTCD	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.288.EVASI*552213MEGA*
PTBU	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10771.MEGA/I*569153MEGA
UCBL	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.11069.MEGA/I*573341MEGA
PRNU	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10712.MEGA/I*568174MEGA*
PTTR	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10761.MEGA/I*569153MEGA
PXNT	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10942.MEGA/I*571467MEGA*

PROVA Test Epreuve	POS. Item Pos.	QUANTITA' Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
KTCD	059	341	59012	HEX. HEAD PLUG NPT A/SA105N 1.1/4	OK
PTBU	061	100	59030	HEX. HEAD PLUG NPT A/SA105N 3	OK
UCBL	062	5100	60005	90 DEG. ELBOW S. 3000 SW A/SA105N 1/2	OK
PRNU	063	854	60007	90 DEG. ELBOW S. 3000 SW A/SA105N 3/4	OK
PTTR	063	7556	60007	90 DEG. ELBOW S. 3000 SW A/SA105N 3/4	OK
PXNT	063	1590	60007	90 DEG. ELBOW S. 3000 SW A/SA105N 3/4	OK

NOTE / Remarks / Notes	ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official	CAPIS COLLAUDO Chief Inspector/DPT Responsable assurance qualité
MATERIAL ACCORDING TO NACE MR0175/2003		DOC. CERT. M.E.G.A. Emmanuel Centemeri