

FORM FMC Rev. 0 15-05-2000

M.E.G.A.

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

CLIENTE
 Customer
 Client

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

CERTIFICATO N.
 Certificate N.
 Certificat N. 574671

FOGLIO
 Sheet
 Feuille 3

DATA / Date 15/12/10

COMMESSA
 Job N. 92487
 Confirmation de commande

ORDINE
 Purchase order 246
 Commande

PROVA Test Epreuve	MATERIALE Material / Matière	COLATA Heat / Coulee	C %	SI %	Mn %	S %	P %	Cr %	NI %	Mo %	Ti %	Cu %	V %	Al %	CE %
UCBR	ASTM A105/09	09/79374	0.190 --->	0.220 Nb% = 0.001	0.920	0.006	0.015	00.11 Sn% = 0.008	00.05	0.010	0.021	0.170	0.017	0.029 CEs = 0.3433	0.385
KDRT	ASTM A105/05	0835648/08	0.185 --->	0.220 Nb% = 0.0026	1.160	0.004	0.014	00.11 Cb% = 0.010	00.01	0.003	0.000	0.025	0.004	0.035 CEs = 0.378	0.404
NDDA	ASTM A105/05	0745422/07	0.180 --->	0.235 Nb% = 0.0017	1.050	0.003	0.017	00.10 B % = 0.000	00.01	0.005	0.000	0.025	0.003	0.026 CEs = 0.378	0.378
PWLF	ASTM A105/05	09/79372 PLWF	0.195 --->	0.230 Nb% = 0.001	0.900	0.006	0.012	00.07 Sn% = 0.008	00.05	0.010	0.021	0.150	0.017	0.025 CEs = 0.345	0.377

PROVA Test Epreuve	PROVETTA Test specimen / Epreuvette		SNERVAMENTO MPa ≥ Yield strength Limite d'élasticité	ROTTURA MPa ≥ Tensile strength Rupture	ALLUNGAMENTO % ≥ Elongation Allongement	CONTRAZIONE % ≥ Reduction of area Striction	DUREZZA HB Hardness Dureté	PIEGA Bend test Pliage	SCHIACC. Flat. test Aplattiss.	RESILLENZA Impact test / Résilience			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITÀ MIS. LIM	TIPO Type	T. °C Test temp	VALORE / Value / Données
UCBR	121.5	50.0	311.4	496.1	28.6	77.5	163-166		J	KV	0	108-90-82	
KDRT	30.6	25.0	312.0	528.0	29.3	65.4	149-156		J	KV	0	46-54-50	
NDDA	60.1	35.0	312.4	533.4	28.1	66.6	156-159		J	KV	-10	52-56-44	
PWLF	30.6	25.0	318.0	533.0	29.2	66.8	152-156		J	KV	0	48-52-52	

PROVA Test Epreuve NOTE / Remarks / Notes **EN10204/3.1**

* FORMA Shape / Forme : 1 = Ø 2 = □

UCBR ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.11043.MEGA/I*573651MEGA

KDRT ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10081.MEGA/I*553469MEGA*

NDDA ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9826.08 MEGA/I*549493MEGA*

PWLF ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10783.MEGA/I*569704MEGA*

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
UCBR	066	200	60025	90 DEG. ELBOW S. 3000 SW A/SA105N 2.1/2	OK
KDRT	070	480	61012	45 DEG. ELBOW S. 3000 SW A/SA105N 1.1/4	OK
NDDA	070	211	61012	45 DEG. ELBOW S. 3000 SW A/SA105N 1.1/4	OK
PWLF	070	809	61012	45 DEG. ELBOW S. 3000 SW A/SA105N 1.1/4	OK

NOTE / Remarks / Notes

MATERIAL ACCORDING TO NACE MR0175/2003.

ENTE UFFICIALE DI COLLAUDO
 Inspection Authority
 Service Inspection Officiel

CAPO COLLAUDO
 Chief Inspection DPT
 Responsable assurance qualité

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