

# M.E.G.A.

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

CERTIFICATO N. 569898  
 Certificate N. 569898  
 Certificat N.  
 DATA / Date 20/04/10

**CERTIFICATO DI COLLAUDO**  
**TEST CERTIFICATE**  
**CERTIFICAT DE CONTROLE**

COMPANY  
 WITH QUALITY SYSTEM  
 CERTIFIED BY DNV  
 ISO 9001

ORDINE Purchase order Commande  
 241

COMMESSA Job N. Confirmation de commande  
 90498

PROVA Test Epreuve	MATERIALE Material / Matière	COLATA Heat / Coulee	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
KRAX	ASTM A105/05	FC-CN*9735	0.203 --->	0.204 Nb% = 0.001	0.810	0.004	0.006	00.07	00.15	0.050	0.000	0.130	0.001	0.024	0.380 CEs = 0.338
PCLB	ASTM A105/05	06/36112 FC-EI	0.200 --->	0.230 Nb% = 0.002	0.970	0.006	0.010	00.11	00.05	0.010	0.015	0.150	0.012	0.026	0.401 CEs = 0.361
PAAT	ASTM A105/05	0941776/09	0.180 --->	0.245 Nb% = 0.0028	1.080	0.006	0.009	00.11	00.01	0.004	0.000	0.010	0.003	0.030	0.386 CEs = 0.360
PBCC	ASTM A105/05	37036	0.140 --->	0.240 Nb% = 0.000	0.910	0.004	0.008	00.11	00.04	0.010	0.000	0.060	0.003	0.000	0.322 CEs = 0.291
PBDB	ASTM A105/05	V02145	0.170 --->	0.210 Nb% = 0.000	1.340	0.011	0.017	00.04	00.04	0.014	0.000	0.170	0.000	0.000	0.419 CEs = 0.393

PROVA Test Epreuve	PROVETTA Test specimen / Epreuvette		SNERVAMENTO MPa <sub>z</sub> Yield strength Limite d'élasticité	ROTTURA MPa <sub>z</sub> Tensile strength Rupture	ALLUNGAMENTO % <sub>z</sub> Elongation Allongement	CONTRAZIONE % <sub>z</sub> Reduction of area Striction	DUREZZA HD Hardness Dureté	PIEGA Bend test Pliage	SCHIACC. Flat. test Aplatis.	RESILIENZA Impact test / Résilience			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITÀ MIS. UM	TIPO Type	T. °C Test temp	VALORE / Value / Données
KRAX	122.6	50.0	291.0	501.0	33.1	71.3	138-145			J	KV	0	38-42-44
PCLB	122.6	50.0	340.0	545.0	27.4	62.4	151-164			J	KV	0	46-52-62
PAAT	60.1	35.0	303.0	521.0	32.8	69.2	143-149			J	KV	0	42-46-40
PBCC	30.1	25.0	407.2	585.3	32.0	79.4	165-170			J	KV	0	182-174-160
PBDB	58.4	35.0	388.3	560.5	26.1	72.5	170-175			J	KV	0	124-138-150

PROVA Test Epreuve	NOTE / Remarks / Notes	FORMA Shape / Forme
KRAX	EN10204/3.1 ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.1603.CARLOTTO*	1 = <input checked="" type="checkbox"/> 2 = <input type="checkbox"/>
PCLB	ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.27/09 CARLOTTO*555830MEGA*Ti% = 0.015*	
PAAT	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10587.MEGA/I*566725MEGA	
PBCC	ELECT.FURNACE-NORMALIZED AT 850 C COOLED IN STILL AIR. /CERT.23363Mu07.V&M*55876IMEGA*	
PBDB	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.09/02/000623.VALCOVNA*558761MEGA*	

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
KRAX	040	1	60040	90 DEG. ELBOW S. 3000 SW A/SA105N 4	OK
PCLB	040	99	60040	90 DEG. ELBOW S. 3000 SW A/SA105N 4	OK
PAAT	044	500	62020	TEE S. 3000 SW A/SA105N 2	OK
PBCC	046	500	64015	COUPLING S. 3000 SW A/SA105N 1.1/2	OK
PBDB	047	700	64020	COUPLING S. 3000 SW A/SA105N 2	OK

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

ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official

GRUPPO COLLAUDO Chief Inspection DPT Responsable assurance qualité

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