

# 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. 562091 FOLIO 5  
Certificate N. Sheet  
Certificat N. Feuille

DATA / Date 11/06/09

CERTIFICATO DI COLLAUDO  
TEST CERTIFICATE  
CERTIFICAT DE CONTROLE

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

ORDINE 225 - 231  
Purchase order  
Commande

COMMESSA 85820  
Job N.  
Confirmation de commande

PROVA Test Epreuve	MATERIALE Steel quality / Matière	COLATA Heat / Coulee	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
RAAB	ASTM A105/05	64605	0.182 --->	0.235 Nb% = 0.002	1.017	0.008	0.013	00.15 Sn% = 0.016	00.13	0.020	0.000	0.300	0.001	0.028	0.414 CES = 0.351
KTDN	ASTM A105/05	08/76307	0.200 --->	0.240 Nb% = 0.001	0.910	0.009	0.011	00.09 Sn% = 0.009	00.07	0.010	0.019	0.170	0.018	0.029	0.391 CES = 0.351
KTSC	ASTM A105/05	1202-08	0.202 --->	0.215 Nb% = 0.001	1.050	0.004	0.005	00.07 N % = 0.0089	00.12	0.040	0.000	0.190	0.001	0.020	0.419 CES = 0.377
KTRC	ASTM A105/05	08/71603	0.200 --->	0.220 Nb% = 0.001	0.920	0.008	0.014	00.11 Sn% = 0.008	00.05	0.010	0.019	0.140	0.020	0.022	0.393 CES = 0.353
RUCD	ASTM A105/05	172820	0.168 --->	0.227	1.046	0.004	0.010	00.12	00.17	0.048	0.000	0.247	0.000	0.000	0.405 CES = 0.342
KASC	ASTM A105/05	07/79888	0.200 --->	0.230 Nb% = 0.000	0.910	0.009	0.014	00.10 N % = 0.000	00.06	0.010	0.022	0.170	0.017	0.027	0.392 CES = 0.351

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 / Longueur								UNITÀ MIS. Unit system	TIPO Type	T. °C Test temp	VALORE / Value / Données
RAAB	60.1	35.0	301.0	512.0	32.1	68.4	143-152			J	KV	0	48-52-54
KTDN	122.6	50.0	326.0	539.0	29.4	67.8	149-156			J	KV	0	48-52-54
KTSC	60.1	35.0	304.0	526.0	32.3	68.7	146-149			J	KV	0	42-44-46
KTRC	60.1	35.0	328.0	542.0	29.6	67.5	149-163			J	KV	0	52-48-58
RUCD	30.6	25.0	318.0	533.0	28.7	66.2	151-157			J	KV	0	56-54-50
KASC	60.1	35.0	300.0	524.0	31.0	68.8	146-149			J	KV	0	50-58-60

PROVA Test Epreuve NOTE / Remarks / Notes EN10204/3.1

FORMA Shape / Forme : 1 =  2 =

RAAB	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9219.MEGA/I*539999 MEGA*
KTDN	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10228.MEGA/I*555314MEGA
KTSC	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10141.MEGA/I*554448MEGA
KTRC	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10115.MEGA/I*553998MEGA
RUCD	ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR.	/CERT.118.EVASI*543955MEGA*
KASC	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9856.MEGA/I*550436MEGA*

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RAAB	056	30		BUSHING M/F NPT A/SA105N 2.1/2x1.1/2	OK
KTDN	057	100		BUSHING M/F NPT A/SA105N 2.1/2x2	OK
KTSC	064	1000		90 DEG. ELBOW S. 3000 SW A/SA105N 1.1/2	OK
KTRC	065	1000		90 DEG. ELBOW S. 3000 SW A/SA105N 2	OK
RUCD	066	500		45 DEG. ELBOW S. 3000 SW A/SA105N 1/2	OK
KASC	077	42		TEE 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

CAPO COLLAUDO  
Chief Inspection DPT  
Responsible assurance qualité

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