



# ALPRES, S.A. de C.V.

México, D.F. a 21 de Septiembre de 1999.  
Folio: 749

**\*\*\* CERTIFICADO DE CALIDAD \*\*\***  
**CONEXIÓN MARCA UECCO**

Por este conducto, certificamos que el material listado a continuación cumple con las normas mecánicas y químicas siguientes:

CODIGO	No. COLADA	CANTIDAD	DESCRIPCIÓN
COI1076	AG9	50	Cople Rosc. A/C 3000 Lbs 3"
CR11013010	SP9	130	Cople Red. Rosc. A/C 3000 Lbs 1/2" x 3/8"
CR11025013	SP9	210	Cople Red. Rosc. A/C 3000 Lbs 1" x 1/2"
CR11051038	SP9	290	Cople Red. Rosc. A/C 3000 Lbs 2" x 1-1/2"
CR11051038	SP9	396	Cople Red. Rosc. A/C 3000 Lbs 2" x 1-1/2"
CR13019006	AG9	220	Cople Red. S.W. A/C 3000 Lbs 3/4" x 1/4"
CR13032025	SP9	70	Cople Red. S.W. A/C 3000 Lbs 1-3/4" x 1"
CR13038019	SP9	150	Cople Red. S.W. A/C 3000 Lbs 1-1/2" x 3/4"
MC11010	AG9	510	Medio Cople Rosc. A/C 3000 Lbs 3/8"
MC11019	AG9	200	Medio Cople Rosc. A/C 3000 Lbs 3/4"
MC11019	AG9	290	Medio Cople Rosc. A/C 3000 Lbs 3/4"
RBI1010006	SP9	150	Red. Bushing Rosc. Rosc. A/C 3000 Lbs 3/8" x 1/4"
RBI1013010	SP9	887	Red. Bushing Rosc. A/C 3000 Lbs 1/2" x 3/8"
RBI1019010	SP9	622	Red. Bushing Rosc. A/C 3000 Lbs 3/4" x 3/8"
RBI1051038	SP9	130	Red. Bushing Rosc. A/C 3000 Lbs 2" x 1-1/2"
TMH11006	AG9	280	Tapon Macho Hex. Rosc. A/C 3000 Lbs 1/4"
TMH11032	JL9	100	Tapon Macho Hex. Rosc. A/C 3000 Lbs 1-1/4"
TMH11051	JL9	100	Tapon Macho Hex. Rosc. A/C 3000 Lbs 2"
CR13032013	971101	85	Cople Red. S.W. A/C 3000 Lbs 1-1/4" x 1/2"
RBI1032006	980401	100	Red. Bushing Rosc. A/C 3000 Lbs 1-1/4" x 1/4"
RBI1025006	980814	500	Red. Bushing Rosc. A/C 3000 Lbs 1" x 1/4"
TU11051	980814	110	Tuerca Union Rosc. A/C 3000 Lbs 2"
CR11032025	990122	40	Cople Red. Rosc. A/C 3000 Lbs 1-1/4" x 1"
MC11032	990122	40	Medio Cople Rosc. A/C 3000 Lbs 1-1/4"
MC11051	990122	100	Medio Cople Rosc. A/C 3000 Lbs 2"
TC11013	990122	462	Tapon Capa Rosc. A/C 3000 Lbs 1/2"
TC11051	990122	300	Tapon Capa Rosc. A/C 3000 Lbs 2"
TU13038	12216	445	Tuerca Union S.W. A/C 3000 Lbs 1-1/2"
TU13038	79TK	195	Tuerca Union S.W. A/C 3000 Lbs 1-1/2"
TU13038	79TI	157	Tuerca Union S.W. A/C 3000 Lbs 1-1/2"
MC11038	990420	200	Medio Cople Rosc. A/C 3000 Lbs 1-1/2"



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## CARACTERISTICAS MECÁNICAS

CODIGO	ASTM	ESFUERZO TENSION		ESFUERZO SEDENCIA		% ELONG		% RED. ÁREA	
		Norma		Norma		Min		Min	
CO11076	A-105	70,000	PSI 72,820	36,000	PSI 36,000	22.0	23.5	30.0	31.8
CR11013010	A-105	70,000	PSI 72,000	36,000	PSI 36,045	22.0	22.4	30.0	31.1
CR11025013	A-105	70,000	PSI 73,000	36,000	PSI 36,000	22.0	22.1	30.0	30.2
CR11051038	A-105	70,000	PSI 70,500	36,000	PSI 36,200	22.0	22.4	30.0	30.6
CR11051038	A-105	70,000	PSI 71,600	36,000	PSI 36,005	22.0	23.1	30.0	30.3
CR13019006	A-105	70,000	PSI 72,100	36,000	PSI 36,450	22.0	23.5	30.0	31.6
CR13032025	A-105	70,000	PSI 72,050	36,000	PSI 36,150	22.0	22.7	30.0	31.6
CR13038019	A-105	70,000	PSI 73,445	36,000	PSI 36,580	22.0	22.6	30.0	34.0
MC11010	A-105	70,000	PSI 72,425	36,000	PSI 36,854	22.0	22.5	30.0	31.8
MC11019	A-105	70,000	PSI 72,210	36,000	PSI 36,019	22.0	23.4	30.0	31.5
MC11019	A-105	70,000	PSI 71,510	36,000	PSI 36,186	22.0	23.5	30.0	30.6
RB11010006	A-105	70,000	PSI 72,120	36,000	PSI 36,018	22.0	24.3	30.0	33.0
RB11013010	A-105	70,000	PSI 71,400	36,000	PSI 36,240	22.0	22.7	30.0	31.1
RB11019010	A-105	70,000	PSI 72,000	36,000	PSI 36,045	22.0	22.4	30.0	31.1
RB11051038	A-105	70,000	PSI 71,400	36,000	PSI 36,150	22.0	22.7	30.0	33.5
TMH11006	A-105	70,000	PSI 71,000	36,000	PSI 36,100	22.0	22.1	30.0	30.8
TMH11032	A-105	70,000	PSI 72,100	36,000	PSI 36,020	22.0	22.9	30.0	31.0
TMH11051	A-105	70,000	PSI 71,000	36,000	PSI 36,100	22.0	22.1	30.0	30.8
CR13032013	A-105	70,000	PSI 72,000	36,000	PSI 36,110	22.0	22.8	30.0	30.4
RB11032006	A-105	70,000	PSI 71,600	36,000	PSI 36,400	22.0	23.2	30.0	31.2
RB11025006	A-105	70,000	PSI 71,100	36,000	PSI 36,000	22.0	23.6	30.0	33.1
TU11051	A-105	70,000	PSI 71,800	36,000	PSI 36,125	22.0	21.7	30.0	31.5
CR11032025	A-105	70,000	PSI 73,000	36,000	PSI 36,000	22.0	22.1	30.0	30.2
MC11032	A-105	70,000	PSI 71,080	36,000	PSI 36,020	22.0	22.1	30.0	30.2
MC11051	A-105	70,000	PSI 70,500	36,000	PSI 36,200	22.0	22.4	30.0	30.6
TC11013	A-105	70,000	PSI 71,080	36,000	PSI 36,020	22.0	22.1	30.0	30.2
TC11051	A-105	70,000	PSI 71,800	36,000	PSI 36,335	22.0	24.5	30.0	33.4
TU13038	A-105	70,000	PSI 70,020	36,000	PSI 36,100	22.0	22.8	30.0	30.3
TU13038	A-105	70,000	PSI 72,050	36,000	PSI 36,150	22.0	22.7	30.0	31.6
TU13038	A-105	70,000	PSI 72,050	36,000	PSI 36,580	22.0	22.6	30.0	34.0
MC11038	A-105	70,000	PSI 71,510	36,000	PSI 36,186	22.0	23.5	30.0	30.6

% ELONG. \*-El porcentaje de elongación en 2"



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## CARACTERISTICAS QUIMICAS

CODIGO	ASTM	C Max	C	Mn Max	Mn	P Max	P	S Max	S	Si Max	Si
CO11076	A-105	0.350	0220	06/1.05	1.00	0.040	0.037	0.050	0.047	0.35	0.32
CR11013010	A-105	0.350	0290	06/1.05	0.980	0.040	0.038	0.050	0.047	0.35	0.35
CR11025013	A-105	0.350	0300	06/1.05	0.980	0.040	0.038	0.050	0.044	0.35	0.32
CR11051038	A-105	0.350	0320	06/1.05	1.00	0.040	0.034	0.050	0.048	0.35	0.32
CR11051038	A-105	0.350	0310	06/1.05	0.980	0.040	0.038	0.050	0.046	0.35	0.32
CR13019006	A-105	0.350	0280	06/1.05	0.953	0.040	0.037	0.050	0.048	0.35	0.32
CR13032025	A-105	0.350	0240	06/1.05	1.00	0.040	0.040	0.050	0.046	0.35	0.32
CR13038019	A-105	0.350	0280	06/1.05	0.950	0.040	0.031	0.050	0.043	0.35	0.30
MC11010	A-105	0.350	0290	06/1.05	0.850	0.040	0.038	0.050	0.041	0.35	0.31
MC11019	A-105	0.350	0280	06/1.05	0.975	0.040	0.035	0.050	0.041	0.35	0.31
MC11019	A-105	0.350	0260	06/1.05	1.00	0.040	0.037	0.050	0.048	0.35	0.34
RB11010006	A-105	0.350	0280	06/1.05	1.00	0.040	0.036	0.050	0.044	0.35	0.32
RB11013010	A-105	0.350	0290	06/1.05	1.00	0.040	0.040	0.050	0.047	0.35	0.33
RB11019010	A-105	0.350	0290	06/1.05	0.980	0.040	0.038	0.050	0.047	0.35	0.33
RB11051038	A-105	0.350	0280	06/1.05	0.990	0.040	0.036	0.050	0.048	0.35	0.33
TMH11006	A-105	0.350	0240	06/1.05	1.00	0.040	0.038	0.050	0.049	0.35	0.32
TMH11032	A-105	0.350	0330	06/1.05	1.01	0.040	0.039	0.050	0.048	0.35	0.32
TMH11051	A-105	0.350	0240	06/1.05	1.00	0.040	0.038	0.050	0.049	0.35	0.32
CR13032013	A-105	0.350	0320	06/1.05	1.03	0.040	0.036	0.050	0.043	0.35	0.32
RB11032006	A-105	0.350	0290	06/1.05	0.960	0.040	0.033	0.050	0.048	0.35	0.34
RB11025006	A-105	0.350	0280	06/1.05	0.843	0.040	0.039	0.050	0.046	0.35	0.33
TU11051	A-105	0.350	0270	06/1.05	0.970	0.040	0.035	0.050	0.045	0.35	0.32
CR11032025	A-105	0.350	0300	06/1.05	0.950	0.040	0.038	0.050	0.045	0.35	0.34
MC11032	A-105	0.350	0320	06/1.05	1.01	0.040	0.048	0.050	0.045	0.35	0.34
MC11051	A-105	0.350	0320	06/1.05	1.00	0.040	0.034	0.050	0.048	0.35	0.32
TC11013	A-105	0.350	0320	06/1.05	1.01	0.040	0.048	0.050	0.045	0.35	0.34
TC11051	A-105	0.350	0290	06/1.05	0.970	0.040	0.035	0.050	0.045	0.35	0.33
TU13038	A-105	0.350	0350	06/1.05	0.915	0.040	0.040	0.050	0.050	0.35	0.35
TU13038	A-105	0.350	0240	06/1.05	1.00	0.040	0.040	0.050	0.046	0.35	0.32
TU13038	A-105	0.350	0280	06/1.05	0.950	0.040	0.031	0.050	0.043	0.35	0.30
MC11038	A-105	0.350	0260	06/1.05	1.00	0.040	0.037	0.050	0.048	0.35	0.34

ATENTAMENTE

Felipe Múñiz M.