

REPORT N. Rapporto N.	TC-017374-16-0003	Issued on Emesso il	10/06/2016	Customer Cliente	PROVEEDORA DE MATERIALES AN CER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	Job n. / Com. n.	17374	Page n. / Pagina n.	4 of 7
Revision Revisione	0	According to In accordo a	EN 10204:2004 UNI EN 10204:2005	Type Tipo	3.1	Purchase order and project/Ordine e progetto 340			

DESCRIPTION / DESCRIZIONE

Test Prova	Item Pos.	Qty Q.tà	Customer code Codice cliente	Material Materiale	Heat Colata	Product Prodotto
YFRC	49	100		A/SA105-14	13/77828	HEX. HEAD PLUG NPT A/SA105N 2.1/2
YLTU	50	750		A/SA105-14	13/77992	90 DEG. ELBOW S. 3000 SW A/SA105N 1.1/2
YNXN	51	900		A/SA105-14	15/77270	90 DEG. ELBOW S. 3000 SW A/SA105N 2
JUAX	55	250		A/SA105-14	13/77967	45 DEG. ELBOW S. 3000 SW A/SA105N 1.1/4
YLTU	56	250		A/SA105-14	P3131335953	45 DEG. ELBOW S. 3000 SW A/SA105N 2

Test Prova	HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES / Dettagli di trattamento termico e riferimenti ad altri certificati	RAW AND FORGING MATERIAL CERTIFICATES / Certificati di acciaieria/forgia
YFRC	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-005283-15-0005.MEGA/CERT.2486.MEGA*
YLTU	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-005265-15-0022.MEGA/CERT.2147.MEGA*
YNXN	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-005329-15-0018.MEGA/CERT.2564.MEGA*
JUAX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-004682-13-0021.MEGA/CERT.923.MEGA*
YLTU	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-005265-15-0012.MEGA/CERT.2030.MEGA*

Test Prova	Test loc. Preso a	Orient. Direz.	TENSILE TEST AT ROOM TEMPERATURE / Trazione a temperatura ambiente							CVN (KV) / Prova di resilienza					Bend [B] Flatt. [F] Piega Schiacc.	Hardness Durezza
			Specimen / Provino			Yield strength Snerv. [Mpa] Min:	Tensile strength Rottura [Mpa] Min:	Elongation Allung. [%] Min:	Red. Of Area Contraz. [%] Min:	Dimens. Dimens. [mm]	T Temp. [°C]	Abs. Energy Energia ass. [J]	Shear A Area d [%]	Lat Exp Esp. Lat. [mm]		
			Shape Forma	A [mm ²] Sezione	L [mm] Lungh.											
YFRC	T/2	LONG	Round	30.000	25.000	296.900	489.000	30.000	60.400	10x10x55	-1	88-73-89	--	--		HBW 140-143
YLTU	T/2	LONG	Round	30.300	25.000	278.100	507.000	35.600	66.400	10x10x55	-1	106-82-68	--	--		HBW 147-149
YNXN	T/2	LONG	Round	59.700	35.000	295.800	508.400	33.900	66.100	10x10x55	-1	64-57-88	35-30-45	--		HBW 150-152
JUAX	T/2	LONG	Round	30.500	25.000	276.400	522.500	38.500	65.300	10x10x55	0	79-97-77	--	--		HBW 148-152
YLTU	T/2	LONG	Round	30.900	25.000	264.800	487.300	34.800	64.600	10x10x55	0	133-157-125	--	--		HBW 140-141

Test Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	H [%]	Nb [%]	N [%]	Sn [%]	O [%]	B [%]	Fe [%]	Zr [%]	CE ^A [%]	PREN ^B [%]	X fact. ^C [%]	J fact. ^D [%]
YFRC	0.1900	0.1600	0.9500	0.0100	0.0120	0.1300	0.0800	0.0200	0.0150	0.1800	0.0030	0.0260	0.00021	0.0020	0.0102	0.0090	0.0018					0.3962		
YLTU	0.1950	0.2000	0.9500	0.0090	0.0150	0.1300	0.0500	0.0100	0.0220	0.1600	0.0020	0.0320	0.00024	0.0010	0.0092	0.0080	0.0017					0.3957		
YNXN	0.1850	0.1900	1.0400	0.0040	0.0150	0.1500	0.0600	0.0100	0.0190	0.2000	0.0020	0.0280	0.00021	0.0010	0.0090	0.0100	0.0012					0.4080		
JUAX	0.1950	0.2500	1.0100	0.0030	0.0150	0.1500	0.0800	0.0100	0.0200	0.1900	0.0020	0.0280		0.0010	0.0096	0.0090						0.4137		
YLTU	0.1700	0.2500	1.0700	0.0010	0.0090	0.1650	0.0220	0.0050		0.0440	0.0040	0.0250	0.00015	0.0031	0.0053		0.0011	0.0003				0.3875		

REMARKS / Note

1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3 Ed.2009
 2: MATERIAL ACCORDING TO ASME Sect. II Part. A 2015 Edition.
 3: FULLY KILLED STEEL AND FINE GRAIN TREATED

A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N
 C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
 D: J factor = ((Mn + Si) (P + Sn)) x 10E4

Quality inspector representative

Ispettore controllo qualità

Riccardo Scorsetti

Additional elements: