

50995



## INSPECTION CERTIFICATE (MILL TEST CERTIFICATE)

CHARM MING VIETNAM CO., LTD  
SAIGON - LINH TRUNG EXPORT PROCESSING ZONE  
THU DUC DISTRICT, HO CHI MINH CITY, VIET NAM.

PURCHASER : FORGINGS, FLANGES & FITTINGS, LLC.  
ORDER NO. : 173621  
SPEC. FOR RAW MATERIAL : ASTM A516 GR.65  
SPEC. FOR INSPECTION : ASTM A234 Gr.WPB - 2011  
ASME SA- 234 Gr.WPB - 2010  
ASME B16.9-2007 / ANSI B16.9  
DIN 50049 3.1B/ EN 10204 3.1

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JOB NO. : SC1209046A  
CERTIFICATE NO. : Q130130046A-07  
DATE : JAN 30. 2013

Product & Size(Inch)		Heat No.		Quantity	Heat No.		Raw Material Mfg	Certificate No.										
30	CAP 14	XH	2KK91	14	2KK91		C.S.C	011024A0007										
31	CAP 16	XH	3JH53	35	3JH53		C.S.C	990901A0276										
32	CAP 3	STD	2KK92	625	2KK92		C.S.C	011024A0001										
33	CAP 4	STD	2KK92	627	2KK92		C.S.C	011024A0001										
34	CAP 6	STD	2KK91	352	2KK91		C.S.C	011024A0004										
Spe.	Chemical Composition %												Tension Test			HARD NESS TEST	Magnetic Particle Exam.	
	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	CE	Yield Strength	Tensile Strength	Elongation			Red. Value
	X100	X100	X100	X1000	X1000	X100	X100	X100	X100	X1000	X1000	X100	P.S.I	P.S.I	%	%	H.B	
MIN		10	29										35000	60000	30	30		
MAX	25		120	50	58	40	40	40	15	80	20	42					197	
30	18	24	100	11	4	<1	1	2	<1	1	<1	35	48865	69745	36	64	129	GOOD
31	19	21	104	15	3	1	1	2	*2	1	*<3	37	54520	76415	32	68	128	GOOD
32	18	25	106	11	2	<1	1	2	<1	1	<1	36	50025	65250	37	66	139	GOOD
33	18	25	106	11	2	<1	1	2	<1	1	<1	36	50025	65250	37	66	134	GOOD
34	18	24	100	11	4	<1	1	2	<1	1	<1	35	40310	61045	34	63	129	GOOD
Visual Examination			Dimensional Inspection			Heat Treatment			(*) Product Analysis									
Acceptable			Good			S.R 650°C x 0.5H												

$$CE = C + Mn/6 + (Cr + Mo + V) / 5 + (Ni + Cu) / 15$$

MATERIAL CONFORMS TO NACE MR0175 - 2007

We hereby certify that the products described here in have been manufactured and tested in accordance With specifications and also the purchaser's requirements concerned.

THE QUALITY MANGEMENT SYSTEM OF ISO 9001-2008 HAS BEEN APPROVED BY LRQA

Quality Assurance Section/ Manager