



INSPECTION CERTIFICATE

RIGID INDUSTRIES CO., LTD.

PURCHASER: DODSON
ASTM A234 WPB-07
ASME SA234 WPB-01

STANDARD :

MATERIALS: ASTM A106 Gr.B/ASTM A515 GR.65

INSP. SPEC.: ASME B16.9 -03

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DATE: 2010-03-25

ORDER NO: S093356

P. I. NO: 9K03-1

CERTIFI. NO: 112

ACCORDING TO EN10204/DIN50049/3.1

ITEM NO.	PRODUCT & SIZE	QUANTITY PCS	MFG NO.	VISUAL & DIMENSIONAL INSPECTION	HARDNESS MAX. 197 HB	HEAT TREATMENT (NOTE)	MAGNETIC PARTICLE EXAMINATION
1	CAP 2" S160	15	7I1502	GOOD	150-151	N	
2	CAP 5" STD	100	8J0745	GOOD	146-155	N	
3	CAP 6" S160	10	7I2358	GOOD	137-143	N	
4	CAP 6" STD	100	9L0739	GOOD	144-154	N	
5	CAP 14" STD	19	9K0434	GOOD	150-156	N	
6	CAP 14" STD	16	8E7682	GOOD	138-145	N	
7	CAP 14" XH	5	9K0562	GOOD	163-164	N	
8	ELL 45 LR 3" S160	18	4E1867-	GOOD	149-165	N	
9	ELL 45 LR 3" S160	7	9I4346	GOOD	138-142	N	
10	ELL 90 LR 1.1/4" XH	300	4K556W(4K)	GOOD	132-133	A	

ITEM NO.	MATERIAL CHARGE NO.	CHEMICAL COMPOSITION %											PHYSICAL TEST			C. E. x100
		C X100	SI X100	Mn X100	P X1000	S X1000	Cu X100	NI X100	Cr X100	Mo X100	V X100	Nb X1000	Y S KSI	T S KSI	E %	
		MIN. MAX.	10	29									35.0	60.0		
	STANDARD	30		135	50	58	40	40	40	15	8	20		95.0		50
1	3H402	15	22	76	20	5	0	1	0	2	0	0	42.8	65.6	26.4	28
2	1M145	21	22	79	13	7	1	1	2	0	0	0	47.9	72.1	26.2	34
3	2N358	23	24	111	14	3	1	1	3	0	0	12	59.3	80.0	26.4	42
4	2CX39	22	22	82	14	5	2	1	2	0	0	4	54.0	75.6	23.3	36
5	1RV74	19	25	77	11	6	1	1	2	0	0	0	44.7	68.9	26.1	32
6	1E282	21	24	107	17	2	2	1	3	1	0	10	56.2	79.7	23.8	39
7	3G962	28	21	85	24	7	1	2	2	1	0	0	46.9	78.5	23.5	42
8	J2K9067	11	28	123	12	2	2	3	8	1	0	0	46.1	65.7	44.6	33
9	J8L2446	11	27	127	6	4	2	2	11	0	0	0	46.0	68.3	45.7	34
10	6W	18	22	44	10	12	2	3	6	0	0	0	39.9	70.4	32.0	26

(NOTE): A : HOT FORMED WITH FINAL TEMPERATURE BETWEEN 620°C-980°C, AIR COOLING.
N : NORMALIZING AT TEMPERATURE 880°C×0.5 HR, AIR COOLING.
NACE MR-01-75 : SATISFACTORY

WE HEREBY CERTIFY THAT THE PRODUCT DESCRIBED HEREIN HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE SPECIFICATIONS CONCERNED AND ALSO WITH THE PURCHASER'S REQUIREMENTS AND THAT THE TEST RESULTS SHOWN HEREIN ARE CORRECT.

Ou L Lan

MANAGER OF Q.A. DEPT.