

INSPECTION CERTIFICATE

(EN10204:2004 3.1 / ISO 10474:1991 3.1B)

1499-1,SONG JUNG-DONG
 GANGSEO-GU BUSAN,KOREA
 Tel: 82-51-831-6550
 Fax: 82-51-831-6886

Customer	PRI Co. Ltd,	Certificate No.	23659851469	Date	2017/08/17
P.O. No.	ZHL4215-906	Project Name			
Job No.	370645/811	POR/Req No.			
Specification For Material	ASTM A420 WPL6 NACE MR0175	Starting Material	LTS SMLS PIPE		
Specification For Material	ASME B16.9-2007	Dimension and Visual Inspection		GOOD	

Heat Code No. (HCN)	No.	Description	QTY (pcs)	Heat Treatment
DP679	1	REDUCED TEE SCH 80 x 80 SMLS BW 1 1/2" x 1"	100	OC:690°C
279343	2	REDUCED TEE SCH 80 x 80 SMLS BW 1 1/2" x 1"	100	OC:690°C
FK285	3	REDUCED TEE SCH 80 x 80 SMLS BW 2" x 1"	100	OC:690°C
3B636	4	REDUCED TEE SCH 80 x 80 SMLS BW 2" x 1"	100	OC:690°C
1995M	5	REDUCED TEE SCH 80 x 80 SMLS BW 3" x 2"	100	OC:690°C
542711	6	REDUCED TEE SCH 80 x 80 SMLS BW 3" x 2"	100	OC:690°C

CHEMICAL COMPOSITION (%)

Heat Code No. (HCN)	Spec.	C	Si	Mn	P	S	Cr	Mo	Cu	V	Ni	Raw Heat No.
	Max	0.30	-	1.06	0.040	0.040	0.30	0.12	0.40	0.080	0.40	
Min	-	0.10	0.39	-	-	-	-	-	-	-	-	
DP679	P	0.086	0.25	0.56	0.018	0.012	0.097	0.043	0.097	0.015	0.076	G524/3
279343	P	0.085	0.27	0.55	0.017	0.016	0.096	0.044	0.094	0.012	0.075	G524/4
FK285	P	0.087	0.26	0.54	0.014	0.014	0.095	0.045	0.095	0.014	0.072	G524/5
3B636	P	0.082	0.25	0.53	0.016	0.015	0.097	0.044	0.097	0.013	0.074	G524/6
1995M	P	0.084	0.24	0.55	0.017	0.013	0.096	0.043	0.093	0.015	0.076	G524/7
542711	P	0.083	0.26	0.56	0.015	0.014	0.094	0.045	0.096	0.016	0.075	G524/8

MECHANICAL PROPERTIES

Heat Code No. (HCN)	Spec.	Y.S	T.S	E %	Impact Test J (-50DEG C)	Hardness Test HB	Heat Treatment Deg C	Result	
		Mpa							
	Max	-	-	-		-			
	Min	240	415	22.0	18	-			
DP679	P	286	475	27.6	35	33	145	OC:690°C	Satisfactory
279343	P	288	474	27.7	36	34	147	OC:690°C	Satisfactory
FK285	P	285	473	27.6	35	35	142	OC:690°C	Satisfactory
3B636	P	284	474	27.5	37	36	146	OC:690°C	Satisfactory
1995M	P	286	475	27.4	36	37	143	OC:690°C	Satisfactory
542711	P	283	473	27.6	34	35	144	OC:690°C	Satisfactory

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by above order.

Remark :

- Legend :
- HB: Brinell
 - ST: Solution Treatment
 - SR: Stress Relieving
 - N: Normalized
 - A: Annealed
 - Y.S: 0.2% Offset Method
 - Q: Quenched
 - AC: Air Cool
 - OC: On Cool
 - WQ: Water Quenched
 - WC: Water Cool
 - L: ladle
 - P: Product

Reviewed by :
 Witnessed by :



Approved by :

Dojo Kim

Director of Quality Assurance Dept