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INSPECTION CERTIFICATE

EN10204:2004/3.1

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 & PED 2014/68/EU MM+AD2000W0 Certified Company

Customer :	QATAR PETROCHEMICAL	COMPAN'	Y (QAPCO)
Certificate No :	OM/L/MTC/20-21/11094	Page	1
Order No :	82479	Date	04-Dec-2020
Invoice No :		Date	

Specification: ASTM A105/A105N - 14, ASME B16.48-2010

No.	Description	Quantity	Heat No.	Heat Treatment
1	SPADE BLRF FLANGE 2" X 150# X 4MM THK	44.00 Nos.	F0227	Normalized at 900°C and Air Cooled
2	SPADE BLRF FLANGE 3" X 150# X 6MM THK	4.00 Nos.	F0228	Normalized at 900°C and Air Cooled
3	SPADE BLRF FLANGE 4" X 150# X 6MM THK	9.00 Nos.	F0229	Normalized at 900°C and Air Cooled
4	SPADE BLRF FLANGE 12" X 150# X 13MM THK	14.00 Nos.	F0230	Normalized at 900°C and Air Cooled
5	SPADE BLRF FLANGE 14" X 150# X 14MM THK	2.00 Nos.	F0231	Normalized at 900°C and Air Cooled

	Chemical Composition										
Heat No.	C%	SI%	Mn%	P %	S%	Cr%	Ni%	M 0%	V %	Cu%	Ceq %
F0227	0.192	0.212	0.721	0.011	0.005	0.176	0.035	0.028	0.004	0.101	0.362
F0228	0.179	0.187	0.688	0.015	0.009	0.182	0.037	0.035	0.002	0.086	0.345
F0229	0.204	0.222	0.695	0.012	0.008	0.197	0.031	0.029	0.005	0.093	0.374
F0230	0.185	0.193	0.701	0.019	0.004	0.206	0.040	0.031	0.006	0.090	0.359
F0231	0.197	0.202	0.736	0.014	0.006	0.190	0.042	0.030	0.003	0.107	0.374

					Mechanica
Heat No.		Tens	sile		Hardness
neat No.	U.T.S	Y.S	Elongation	Red. Area	
	Mpa-Rp 0.2	Mpa-Rp 0.2	8	%	HRB
F0227	621	367	40	60	77,78,78
F0228	588	352	38	67	76,77,77
F0229	610	360	41	65	78,79,79
F0230	614	365	43	62	79,79,80
F0231	605	370	39	64	76,76,77

 Visual Inspection
 OK
 Dimension Inspection
 OK
 Country of Origin
 INDIA

Marking Remarks Brand - Item - Size - Specification - Dimension - Heat No.

1) Test samples were tested and inspected in accordance with the order & were found to meet the requirements.

- 2) Material free from mercury or radioactive contamination.
- 3) No welding or weld repair.
- 4) Ultrasonic Test as per ASTM SA 388 Found OK.
- 5) Material is Fully Killed and Fine grain Practice.

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