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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/20-21/11096	Page	1
Order No :	82479	Date	04-Dec-2020
Invoice No :		Date	

Specification: ASTM A105/A105N - 14, ASME B16.5-2003

No.	Description	Quantity	Heat No.	Heat Treatment
1	WNRF FLANGE 3" X 300# X SCH 40	1.00 Nos.	F0233	Normalized at 900°C and Air Cooled
2	BLLFF FLANGE 1" X 600#	4.00 Nos.	F0234	Normalized at 900°C and Air Cooled
3	BLLFF FLANGE 2" X 600#	2.00 Nos.	F0235	Normalized at 900°C and Air Cooled
4	BLRF FLANGE 1-1/2" X 600#	4.00 Nos.	F0236	Normalized at 900°C and Air Cooled
5	BLLMF FLANGE 6" X 600#	4.00 Nos.	F0237	Normalized at 900°C and Air Cooled

Chemical Composition											
Heat No.	C%	SI%	Mn%	₽%	S%	Cr%	Ni%	Мо%	٧%	Cu%	Ceq %
F0233	0.197	0.178	0.698	0.014	0.005	0.169	0.037	0.028	0.002	0.101	0.362
F0234	0.204	0.206	0.711	0.019	0.004	0.176	0.039	0.030	0.005	0.089	0.373
F0235	0.182	0.194	0.723	0.012	0.009	0.183	0.040	0.035	0.006	0.096	0.356
F0236	0.179	0.209	0.728	0.015	0.006	0.180	0.041	0.032	0.004	0.105	0.353
F0237	0.193	0.187	0.705	0.017	0.007	0.178	0.035	0.031	0.003	0.073	0.360

					Mechanical
Heat No		Ten	sile		Hardness
Heat No.	U.T.S	Y.S	Elongation	Red. Area	
	Mpa-Rp 0.2	Mpa-Rp 0.2	%	용	HRB
F0233	601	372	40	67	77,78,78
F0234	612	364	43	65	76,77,77
F0235	594	370	38	69	77,77,78
F0236	597	354	42	60	79,79,80
F0237	620	375	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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