

# CERTIFICATE OF INSPECTION



# Unitra

Material : JIS SS41

Product Name : FLANGES

Customer : World Wide Metric

JOB NO : 2021.0622.01

REPORT NO : HSO-0622-01

DATE : 2021.06.22

Heat No.	S.No	Item	Size	QTY PCS	Surface & Dimension	Description of Test										
						NDE TEST	HARDNESS HV5/Max-120	Double Bend	Hydro Test	Y.P Mpa	T.S Mpa	EL (%)	RA (%)	HB N/mm <sup>2</sup>	Bend Test 180°Radius	
2650	1	SS41 - JIS B2220 - 5K Slip-On Flange (PLFF)	25A	200	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2650	2	SS41 - JIS B2220 - 5K Slip-On Flange (PLFF)	200A	50	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2650	3	SS41 - JIS B2220 - 5K Slip-On Flange (PLFF)	300A	25	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2650	4	SS41 - JIS B2220 - 5K Slip-On Flange (PLFF)	350A	10	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2650	5	SS41 - JIS B2220 - 10K Slip-On Flange (PLFF)	50A	100	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2652	6	SS41 - JIS B2220 - 10K Slip-On Flange (PLFF)	100A	100	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2652	7	SS41 - JIS B2220 - 10K Slip-On Flange (PLFF)	200A	50	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2652	8	SS41 - JIS B2220 - 10K Slip-On Flange (PLFF)	300A	10	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2653	9	SS41 - JIS B2220 - 16K Slip-On Flange (PLFF)	250A	10	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2655	10	SS41 - JIS B2220 - 5K Blind Flange (BLFF)	25A	100	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2655	11	SS41 - JIS B2220 - 5K Blind Flange (BLFF)	100A	50	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2655	12	SS41 - JIS B2220 - 5K Blind Flange (BLFF)	150A	10	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2655	13	SS41 - JIS B2220 - 5K Blind Flange (BLFF)	350A	10	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2656	14	SS41 - JIS B2220 - 10K Blind Flange (BLFF)	32A	100	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2656	15	SS41 - JIS B2220 - 10K Blind Flange (BLFF)	40A	100	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
2656	16	SS41 - JIS B2220 - 10K Blind Flange (BLFF)	100A	50	Yellow paint	-	-	-	-	-	-	-	-	-	-	-
Chemical Composition	C	Mn	P	S	Si	Mechanical										
	(%)	(%)	(%)	(%)	(%)	Properties(N/mm <sup>2</sup> )	Y.P	T.S	EL	RA	HB	Bend Test				
Requirement(%)	≤	0.3	≤	≤	0.15	Requirement(%)	≥	440	≥	≥	≤	Angle				
Heat No	MIN	0.6	1.2	0.03	0.035	Heat No	225	540	24	45	165	Good				
	MAX	0.19	0.49	0.021	0.027		266	455	28	55	153	Good				
2650		0.15	0.52	0.014	0.027	2650	244	462	25	48	153	Good				
2650		0.14	0.52	0.014	0.027	2650	245	462	25	49	155	Good				
2650		0.18	0.44	0.022	0.027	2650	270	452	25	49	155	Good				
2650		0.16	0.37	0.023	0.021	2652	239	488	27	47	155	Good				
2652		0.18	0.44	0.022	0.027	2652	269	452	25	49	156	Good				
2652		0.16	0.39	0.022	0.029	2652	263	462	27	57	154	Good				
2652		0.15	0.39	0.021	0.028	2652	267	454	27	47	150	Good				
2653		0.17	0.41	0.023	0.026	2653	271	450	25	46	152	Good				

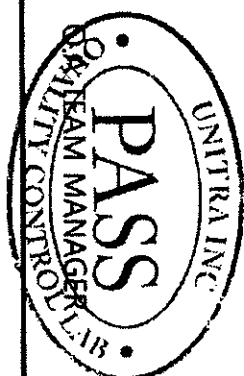
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2655	-	0.19	0.49	0.021	0.027	0.23	2655	266	455	28	55	153	Good
2655	-	0.15	0.52	0.014	0.027	0.24	2655	244	462	25	48	153	Good
2655	-	0.19	0.49	0.021	0.027	0.23	2655	245	462	25	49	155	Good
2655	-	0.15	0.52	0.014	0.027	0.24	2655	270	452	25	49	156	Good
2656	-	0.14	0.52	0.014	0.027	0.24	2656	269	452	25	48	150	Good
2656	-	0.18	0.44	0.022	0.027	0.22	2656	270	452	25	49	155	Good
2656	-	0.16	0.37	0.023	0.021	0.17	2656	271	450	25	46	152	Good

According to the result of the aggregate inspections, we hereby certify that the material described herein has been satisfactorily tested and complies with the terms of the order contract.

Remarks : This Certificate in compliance with EN 10204 3.1B

Reviewed by  
Witnessed by



**UNITRA INC.**