

# PT. PERONI KARYA SENTRA

NGORO INDUSTRI PERSADA BLOK K-5A, NGORO, MOJOKERTO 61385, EAST JAVA - INDONESIA

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## MILL CERTIFICATE

CUSTOMER : UNIMECH ENGINEERING (M) SDN. BHD.  
 ADDRESS : WISMA UNIMECH, 4934, JALAN CHAIN FERRY,  
 12100 BUTTERWORTH, PENANG, MALAYSIA  
 TEL: 60-43235823 FAX: 60-43325176

CERTIFICATE NO. : IE-2022-014  
 DATE : MAR 04, 2022

NO.	DESCRIPTION OF GOODS	QTY (PCS)	HEAT NO.	CHEMICAL COMPOSITION (%)											MECHANICAL PROPERTY			DIMENSION AND SURFACE
				C	Si	Mn	P	S	Cr	Ni	Mo	Fe	T.S. MPa	Y.S. MPa	EL %	Hb		
1	SS304 CASTED PLANE FLANGE JIS 5K ID34.5 1"	100	H1030122	0.0591	0.8041	1.1033	0.0312	0.0224	17.7015	8.1124	-	72.1660	445	201	26	171	OK	
2	SS304 CASTED PLANE FLANGE JIS 5K ID49.5 1-1/2"	400	H3030122	0.0596	0.7983	1.1085	0.0326	0.0215	17.6963	8.0516	-	72.2316	461	199	25	170	OK	
3	SS304 CASTED PLANE FLANGE JIS 5K ID62.0 2"	400	H5030122	0.0587	0.8011	1.1096	0.0315	0.0296	17.7134	8.1948	-	72.0613	457	190	27	175	OK	
4	SS304 CASTED PLANE FLANGE JIS 5K ID90.7 3"	280	H7030122	0.0605	0.8051	1.1099	0.0342	0.0235	17.7089	8.0513	-	72.2066	466	193	26	177	OK	
5	SS304 CASTED PLANE FLANGE JIS 5K ID276.3 10"	15	H9030122	0.0580	0.8051	1.1063	0.0358	0.0225	17.7751	8.1985	-	71.9987	453	193	27	175	OK	
6	SS304 CASTED PLANE FLANGE JIS 5K ID327.1 12"	6	H5110122	0.0601	0.8051	1.1038	0.0311	0.0275	17.6987	8.1244	-	72.1493	472	194	25	174	OK	
7	SS304 CASTED PLANE FLANGE JIS 10K ID34.5 1"	200	H1070122	0.0592	0.8114	1.1018	0.0315	0.0214	17.7899	8.1526	-	72.0322	468	192	28	171	OK	
8	SS304 CASTED PLANE FLANGE JIS 10K ID62.0 2"	800	H3070122	0.0606	0.8208	1.1072	0.0342	0.0242	17.7581	8.0816	-	72.1133	451	199	25	176	OK	
9	SS304 CASTED PLANE FLANGE JIS 10K ID74.7 2-1/2"	100	H5070122	0.0614	0.8094	1.1012	0.0385	0.0255	17.7663	8.1369	-	72.0608	457	191	26	179	OK	
10	SS304 CASTED PLANE FLANGE JIS 10K ID116.1 4"	800	H7070122	0.0567	0.8125	1.1069	0.0369	0.0269	17.8669	8.2122	-	71.8810	461	196	27	176	OK	
11	SS304 CASTED PLANE FLANGE JIS 10K ID143.8 5"	150	H9070122	0.0593	0.8098	1.1016	0.0360	0.0236	17.8715	8.0988	-	71.9994	466	200	28	173	OK	
12	SS304 CASTED PLANE FLANGE JIS 10K ID170.7 6"	500	H1130122	0.0605	0.8369	1.1003	0.0318	0.0216	17.7015	8.1997	-	72.0477	463	200	26	174	OK	
13	SS304 CASTED PLANE FLANGE JIS 10K ID221.5 8"	150	H3130122	0.0583	0.8199	1.1069	0.0312	0.0285	17.7069	8.1124	-	72.1359	466	203	25	173	OK	
14	SS304 CASTED PLANE FLANGE JIS 10K ID327.1 12"	80	H5130122	0.0604	0.8247	1.1066	0.0336	0.0249	17.7583	8.2086	-	71.9829	472	194	28	172	OK	
15	SS304 CASTED PLANE FLANGE TABLE E ID170.7 6"	40	H7110122	0.0384	0.8015	1.1099	0.0339	0.0224	17.6988	8.1174	-	72.1777	451	191	26	171	OK	
16	SS316 CASTED PLANE FLANGE JIS 5K ID43.2 1-1/4"	50	H2040122	0.0399	0.8793	1.0169	0.0351	0.0246	16.7152	10.1536	2.2051	68.9303	469	205	26	171	OK	
17	SS316 CASTED PLANE FLANGE JIS 10K ID34.5 1"	100	H4040122	0.0397	0.8975	1.0334	0.0325	0.0284	16.6388	10.1563	2.1649	69.0085	480	203	26	171	OK	
18	SS316 CASTED PLANE FLANGE JIS 10K ID116.1 4"	100	H2020222	0.0388	0.8699	1.0155	0.0324	0.0285	16.7251	10.1968	2.1187	68.9743	461	195	28	174	OK	
19	SS304 CASTED RAISED FLANGE DIN 2501 PN 10 ID74.7 2-1/2"	20	H1150122	0.0573	0.8199	1.1066	0.0338	0.0271	17.6969	8.1223	-	72.1361	475	201	27	175	OK	
20	SS304 CASTED RAISED FLANGE DIN 2501 PN 10 ID90.7 3"	130	H3150122	0.0601	0.8251	1.1058	0.0325	0.0225	17.7112	8.1252	-	72.1176	480	199	25	173	OK	
21	SS304 CASTED RAISED FLANGE DIN 2501 PN 10 ID116.1 4"	30	H5150122	0.0559	0.8187	1.1016	0.0315	0.0218	17.6988	8.1974	-	72.0743	461	190	27	171	OK	
22	SS304 CASTED RAISED FLANGE DIN 2501 PN 10 ID143.8 5"	30	H7150122	0.0602	0.8266	1.1078	0.0375	0.0275	17.6878	8.1599	-	72.0927	453	200	28	177	OK	
23	SS304 CASTED RAISED FLANGE DIN 2501 PN 10 ID221.5 8"	220	H9150122	0.0586	0.8387	1.1099	0.0369	0.0266	17.7369	8.2087	-	71.9837	449	205	26	172	OK	
24	SS304 CASTED RAISED FLANGE DIN 2501 PN 10 ID359.1 14"	15	H1110122	0.0573	0.8199	1.1031	0.0393	0.0299	17.8051	8.1699	-	71.9755	475	210	27	179	OK	
25	SS304 CASTED RAISED FLANGE DIN 2501 PN 10 ID410.5 16"	10	H3110122	0.0603	0.8067	0.9933	0.0316	0.0296	17.6986	8.2087	-	72.1712	449	199	27	173	OK	
26	SS304 CASTED RAISED FLANGE DIN 2501 PN 16 ID22.3 1/2"	50	H1170122	0.0572	0.8112	1.1055	0.0325	0.0222	17.7550	8.1522	-	72.0642	480	201	25	172	OK	

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				C	Si	Mn	P	S	Cr	Ni	Mo	Fe	T.S. MPa	Y.S. MPa	ELB %			
27	SS304 CASTED RAISED FLANGE DIN 2501 PN 16 ID34.5 1"	650	H3170122	0.0606	0.8286	0.9978	0.0342	0.0251	17.8066	8.1996	-	72.0475	453	210	27	173	OK	
28	SS304 CASTED RAISED FLANGE DIN 2501 PN 16 ID45.2 1-1/4"	100	H5170122	0.0583	0.8334	1.1020	0.0316	0.0275	17.7656	8.2134	-	71.9682	472	209	26	174	OK	
29	SS304 CASTED RAISED FLANGE DIN 2501 PN 16 ID49.5 1-1/2"	400	H1110122	0.0573	0.8199	1.1031	0.0393	0.0299	17.8051	8.1699	-	71.9755	475	210	27	179	OK	
30	SS304 CASTED RAISED FLANGE DIN 2501 PN 16 ID62.0 2"	650	H7170122	0.0592	0.8452	1.1025	0.0325	0.0269	17.6987	8.2134	-	72.0216	479	200	28	178	OK	
31	SS304 CASTED RAISED FLANGE DIN 2501 PN 16 ID74.7 2-1/2"	200	H9170122	0.0604	0.8361	1.1036	0.0377	0.0236	17.7522	8.2134	-	71.9730	453	197	27	172	OK	
32	SS304 CASTED RAISED FLANGE DIN 2501 PN 16 ID221.5 8"	15	H7130122	0.0581	0.8226	1.1039	0.0323	0.0255	17.7263	8.1775	-	72.0538	480	210	28	173	OK	
33	SS304 CASTED RAISED FLANGE DIN 2501 PN 16 ID276.3 10"	60	H9130122	0.0601	0.8186	0.9869	0.0312	0.0236	17.7986	8.1432	-	72.1378	472	201	28	173	OK	
34	SS304 CASTED RAISED FLANGE DIN 2501 PN 40 ID27.7 3/4"	20	H7050122	0.0597	0.7936	1.1016	0.0399	0.0288	17.8096	8.0589	-	72.1079	480	206	25	171	OK	
35	SS304 CASTED RAISED FLANGE DIN 2501 PN 40 ID62.0 2"	100	H9050122	0.0604	0.7995	1.1099	0.0342	0.0296	17.7932	8.1251	-	72.0481	449	208	26	172	OK	
36	SS316 CASTED RAISED FLANGE DIN 2501 PN 16 ID34.5 1"	30	H6060122	0.0413	0.8691	1.0114	0.0333	0.0269	16.7751	10.1553	2.1598	68.9278	443	193	28	171	OK	
37	SS316 CASTED RAISED FLANGE DIN 2501 PN 16 ID116.1 4"	50	H8060122	0.0405	0.8515	1.0257	0.0315	0.0235	16.7663	10.1582	2.1966	68.9062	451	190	25	177	OK	
38	SS304 CASTED BLIND FLANGE JIS 5K 2"	50	H3050122	0.0601	0.8104	1.1075	0.0385	0.0215	17.7559	8.1120	-	72.0941	451	200	25	179	OK	
39	SS304 CASTED BLIND FLANGE JIS 5K 3"	30	H5050122	0.0610	0.8099	1.1072	0.0316	0.0277	17.7899	8.1693	-	72.0034	472	204	28	173	OK	
40	SS304 CASTED BLIND FLANGE JIS 10K 1"	30	H1190122	0.0581	0.8251	0.9785	0.0353	0.0211	17.7225	8.1125	-	72.2469	480	275	37	175	OK	
41	SS304 CASTED BLIND FLANGE JIS 10K 2"	200	H3190122	0.0593	0.8366	0.9963	0.0315	0.0226	17.6936	8.2053	-	72.1548	472	275	37	175	OK	
42	SS304 CASTED BLIND FLANGE JIS 10K 3"	100	H5190122	0.0601	0.8198	1.1036	0.0375	0.0242	17.7056	8.1123	-	72.1369	453	275	37	175	OK	
43	SS304 CASTED BLIND FLANGE JIS 10K 6"	100	H7190122	0.0599	0.8251	0.9781	0.0386	0.0285	17.6988	8.1096	-	72.2614	469	275	37	175	OK	
44	SS304 CASTED BLIND FLANGE JIS 10K 8"	10	H9190122	0.0601	0.8366	1.1066	0.0395	0.0269	17.7251	8.1663	-	72.0389	477	275	37	175	OK	
45	SS304 CASTED BLIND FLANGE JIS 10K 10"	20	H5210122	0.0586	0.8158	1.1096	0.0324	0.0224	17.6975	8.2081	-	72.0556	477	210	28	172	OK	
46	SS304 CASTED BLIND FLANGE JIS 10K 12"	6	H7210122	0.0606	0.8284	0.9975	0.0356	0.0256	17.7236	8.2125	-	72.1162	463	200	26	174	OK	
47	SS304 CASTED BLIND FLANGE JIS 10K 16"	4	H9210122	0.0589	0.8166	1.1025	0.0389	0.0236	17.7112	8.1997	-	72.0486	455	199	27	179	OK	
48	SS304 CASTED BLIND FLANGE JIS 20K 1-1/2"	10	H3210122	0.0601	0.8297	1.1069	0.0324	0.0288	17.8069	8.2153	-	71.9199	457	193	25	173	OK	
49	SS304 CASTED BLIND FLANGE TABLE E 8"	5	H1050122	0.0599	0.8193	1.1078	0.0336	0.0242	17.8051	8.1142	-	72.0359	442	205	27	175	OK	
50	SS316 CASTED BLIND FLANGE JIS 5K 5"	10	H4060122	0.0399	0.8769	1.0245	0.0369	0.0266	16.7869	10.1978	2.1981	68.8124	468	210	27	172	OK	
51	SS304 CASTED BLIND RAISED FLANGE ANSI 150LBS 1/2"	100	H3250122	0.0591	0.8115	0.9975	0.0314	0.0222	17.7225	8.1361	-	72.2197	474	200	26	179	OK	
52	SS304 CASTED BLIND RAISED FLANGE ANSI 150LBS 2"	300	H5250122	0.0601	0.8253	1.1069	0.0342	0.0215	17.7869	8.1958	-	71.9693	461	199	28	172	OK	

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				C	Si	Mn	P	S	Cr	Ni	Mo	Fe	T.S. MPa	Y.S. MPa	EL %	HB		
53	SS304 CASTED BLIND RAISED FLANGE ANSI 150LBS 6"	10	H7250122	0.0588	0.8297	1.1085	0.0358	0.0275	17.6998	8.2051	-	72.0348	472	201	27	171	OK	
54	SS304 CASTED BLIND RAISED FLANGE ANSI 150LBS 10"	15	H9250122	0.0603	0.8361	0.9763	0.0369	0.0269	17.7253	8.1663	-	72.1719	480	206	26	173	OK	
55	SS304 CASTED BLIND RAISED FLANGE DIN 2501 PN 10 6"	10	H5270122	0.0579	0.8453	1.1025	0.0336	0.0255	17.6988	8.1878	-	72.0486	455	199	25	174	OK	
56	SS304 CASTED BLIND RAISED FLANGE DIN 2501 PN 10 8"	6	H7270122	0.0606	0.8199	1.1099	0.0375	0.0224	17.7125	8.1669	-	72.0703	469	204	28	177	OK	
57	SS304 CASTED BLIND RAISED FLANGE DIN 2501 PN 10 10"	10	H9270122	0.0583	0.8215	0.9859	0.0388	0.0219	17.8063	8.1998	-	72.0675	473	198	27	175	OK	
58	SS304 CASTED BLIND RAISED FLANGE DIN 2501 PN 16 1-1/2"	400	H7110222	0.0601	0.8059	1.1053	0.0326	0.0245	17.6983	8.2083	-	72.0650	451	195	26	178	OK	
59	SS304 CASTED BLIND RAISED FLANGE DIN 2501 PN 16 3"	70	H9110122	0.0601	0.8066	1.1027	0.0311	0.0255	17.6963	8.2059	-	72.0718	455	201	27	175	OK	
60	SS304 CASTED BLIND RAISED FLANGE DIN 2501 PN 40 2"	10	H1210122	0.0591	0.8198	1.1022	0.0312	0.0211	17.7051	8.1552	-	72.1063	462	202	28	171	OK	
61	SS304 CASTED SORF FLANGE ANSI 150LBS 3/4"	300	H1290122	0.0605	0.8253	1.1016	0.0324	0.0224	17.6699	8.1360	-	72.1519	472	210	25	172	OK	
62	SS304 CASTED SORF FLANGE ANSI 150LBS 1"	1,200	H3290122	0.0599	0.8199	0.9978	0.0316	0.0285	17.7236	8.1758	-	72.1629	480	199	26	174	OK	
63	SS304 CASTED SORF FLANGE ANSI 150LBS 1-1/2"	800	H5290122	0.0603	0.8274	0.9758	0.0327	0.0226	17.8051	8.1520	-	72.1241	466	193	27	173	OK	
64	SS304 CASTED SORF FLANGE ANSI 150LBS 2"	200	H7290122	0.0576	0.8166	1.1063	0.0355	0.0224	17.7692	8.1633	-	72.0291	473	194	28	176	OK	
65	SS304 CASTED SORF FLANGE ANSI 150LBS 2-1/2"	200	H9290122	0.0581	0.8278	1.1016	0.0369	0.0218	17.6251	8.2081	-	72.1206	451	199	26	179	OK	
66	SS304 CASTED SORF FLANGE ANSI 150LBS 4"	200	H3310122	0.0602	0.8166	1.1086	0.0327	0.0266	17.6997	8.1758	-	72.0798	449	210	25	171	OK	
67	SS304 CASTED SORF FLANGE ANSI 150LBS 6"	200	H5310122	0.0594	0.8278	1.1099	0.0350	0.0285	17.6756	8.1995	-	72.0643	468	205	27	174	OK	
68	SS304 CASTED SORF FLANGE ANSI 150LBS 8"	80	H7310122	0.0576	0.8166	0.9922	0.0366	0.0224	17.6998	8.2251	-	72.1497	470	203	28	172	OK	
69	SS304 CASTED SORF FLANGE ANSI 150LBS 18"	10	H9310122	0.0581	0.8278	1.1011	0.0339	0.0219	17.7253	8.1884	-	72.0435	453	200	26	177	OK	
70	SS316 CASTED SORF FLANGE ANSI 150LBS 2"	60	H6080122	0.0385	0.8696	1.0271	0.0325	0.0288	16.6981	10.1251	2.1825	68.9978	480	195	28	176	OK	
71	SS316 CASTED SORF FLANGE ANSI 150LBS 2-1/2"	30	H8080122	0.0399	0.8784	1.0166	0.0316	0.0296	16.7116	10.2102	2.1166	68.9655	469	197	25	173	OK	
72	SS304 CASTED WNRFL FLANGE ANSI 150LBS 1/2"	200	H1270122	0.0594	0.8157	0.9936	0.0324	0.0225	17.7856	8.1142	-	72.1766	480	200	27	172	OK	
73	SS304 CASTED WNRFL FLANGE ANSI 150LBS 2"	10	H3270122	0.0601	0.8266	1.1036	0.0319	0.0219	17.6998	8.1659	-	72.0902	452	198	28	171	OK	



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CERTIFICATE NO. 31531A00170JEN  
ISO 9001 : 2015

## MILL CERTIFICATE

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REMARK :DRAWN UNDER : OCBC BANK (MALAYSIA) BERHAD  
LC NO. : LCM7312000998  
DATED : 220221

Q.A. MANAGER  
*a.n. Wacdy*

DIRECTOR :  
*[Signature]*