

[illegible]

Location: 3-1-18, Nishinagasaki-shi, Hyogo-ken, 660-0808 JAPAN
E-mail: info.int@benkan-japan.com
Phone: (81)-3-3777-1541
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Customer : NING NAO STEEL CO.,LTD

Contract / Order No : 842SJ-2

Certificate No : SJ9000-2P

Date Of Issue : JUN - 02 - 2022

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BENEX CORPORATION(JAPAN)

Commodity : SMLS & WELDED Fittings
Material Standard & GR : A234 GR WPB
MFG Standard : ASTM A234 GR WPB
Dimensional Standard : ANSI B16.9

Visual & Dim. Examination : OK

ITEM	Product Description(1)	Size	Heat I.D.	Quantity (Pcs)	Tensile Test(2)				Chemical Description %											NACE MR 0175	Visual & Dim. Examination
					YS Mpa	TS Mpa	E %	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	HB	CE		
1	CON REDUCER XS WPB	18X12	W4501	60	310	490	31	0.19	0.22	0.55	0.009	0.006	0.05	0.03	0.05	0.05	0.009	141	0.306	YES	OK
2	RED TEE SCH100 X SCH80S WPB	12X6	W3906	2	295	495	32.5	0.21	0.24	0.51	0.013	0.008	0.04	0.05	0.09	0.09	0.01	138	0.327	YES	OK
3	RED TEE SCH120 WPB	8X6	W3312	34	521	320	32.5	0.17	0.21	0.55	0.011	0.005	0.02	0.02	0.01	0.02	0.003	144	0.272	YES	OK
4	RED TEE SCH20 X STD WPB	10X4	W2905	2	340	490	31	0.18	0.22	0.55	0.011	0.009	0.02	0.02	0.01	0.02	0.008	146	0.283	YES	OK
5	RED TEE SCH40 WPB	12X6	W4705	1	314	510	30	0.22	0.24	0.50	0.015	0.01	0.04	0.008	0.06	0.01	0.005	139	0.319	YES	OK
6	RED TEE SCH40 X SCH60 WPB	12X10	W3704	1	295	485	33.5	0.22	0.23	0.53	0.007	0.005	0.07	0.002	0.07	0.05	0.012	138	0.333	YES	OK
7	RED TEE SCH40 X STD WPB	12X6	W3704	2	295	485	33.5	0.22	0.23	0.53	0.007	0.005	0.07	0.002	0.07	0.05	0.012	145	0.333	YES	OK
8	RED TEE SCH60 WPB	12X6	W4705	1	314	510	30	0.22	0.24	0.50	0.015	0.01	0.04	0.008	0.06	0.01	0.005	147	0.319	YES	OK
9	RED TEE SCH60 WPB	12X8	W4705	2	314	510	30	0.22	0.24	0.50	0.015	0.01	0.04	0.008	0.06	0.01	0.005	139	0.319	YES	OK
10	RED TEE SCH60 WPB	12X10	W4705	3	314	510	30	0.22	0.24	0.50	0.015	0.01	0.04	0.008	0.06	0.01	0.005	144	0.319	YES	OK
11	RED TEE SCH60 X STD WPB	12X10	W4705	2	314	510	30	0.22	0.24	0.50	0.015	0.01	0.04	0.008	0.06	0.01	0.005	139	0.319	YES	OK
12	RED TEE SCH60 X XS WPB	16X10	W4505	3	287	502	36	0.19	0.22	0.57	0.012	0.009	0.03	0.01	0.01	0.03	0.007	143	0.297	YES	OK
13	RED TEE SCH80 WPB	10X5	W3502	2	315	475	32	0.19	0.23	0.54	0.011	0.008	0.032	0.021	0.01	0.032	0.009	135	0.295	YES	OK
14	RED TEE SCH80 WPB	12X4	W3708	26	521	346	30.5	0.18	0.22	0.54	0.009	0.008	0.06	0.04	0.01	0.04	0.006	151	0.294	YES	OK
15	RED TEE SCH80 WPB	12X6	W3708	1	521	346	30.5	0.18	0.22	0.54	0.009	0.008	0.06	0.04	0.01	0.04	0.006	142	0.294	YES	OK
16	RED TEE SCH80 WPB	12X8	W3708	1	521	346	30.5	0.18	0.22	0.54	0.009	0.008	0.06	0.04	0.01	0.04	0.006	152	0.294	YES	OK
17	RED TEE SCH80 X SCH60 WPB	12X10	W3708	1	521	346	30.5	0.18	0.22	0.54	0.009	0.008	0.06	0.04	0.01	0.04	0.006	142	0.294	YES	OK
18	RED TEE STD X XS WPB	12X8	W3703	2	325	500	32	0.2	0.23	0.52	0.01	0.009	0.034	0.022	0.03	0.024	0.01	136	0.303	YES	OK

We hereby certify that the product(s) herein, has been manufactured, sampled, tested, inspected & stamped manufactured, sampled, tested, inspected & stamped in accordance with the above standards and specifications.

Mitsuru Kobayashi

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BENKAN (R)

BENEX CORPORATION(JAPAN)

Commodit : SMLS & WELDED Fittings
Material Standard & GR : A234 GR WPB
MFG Standard : ASTM A234 GR WPB
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Visual & Dim. Examination : OK

ITEM	Product Description(1)	Size	Heat I.D.	Quantity (Pcs)	Tensile Test(2)				Chemical Description %												NACE MR 0175	Visual & Dim. Examination				
					YS Mpa	TS Mpa	E %	C	SI	Mn	P	S	Cr	Mo	Ni	Cu	V	HB	CE							
					240	415	22	-	0.10	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1	LR 180 BEND STD WPB	6	W2504	110	320	506	32.5	0.19	0.21	0.53	0.008	0.005	0.14	0.001	0.08	0.03	0.011	152	0.316					YES	OK	
2	LR 45 ELBOW SCH100 WPB	8	W3701	11	279	484	31	0.21	0.23	0.55	0.012	0.009	0.018	0.01	0.06	0.03	0.011	138	0.315						YES	OK
3	LR 45 ELBOW SCH100 WPB	10	W3701	2	279	484	31	0.21	0.23	0.55	0.012	0.009	0.018	0.01	0.06	0.03	0.011	141	0.315						YES	OK
4	LR 45 ELBOW SCH160 WPB	8	W3316	8	365	552	31	0.19	0.24	1.04	0.011	0.005	0.03	0.002	0.02	0.04	0.001	146	0.374						YES	OK
5	LR 45 ELBOW SCH20 WPB	10	W2905	17	340	490	31	0.18	0.22	0.55	0.011	0.009	0.02	0.02	0.01	0.02	0.008	139	0.283						YES	OK
6	LR 45 ELBOW SCH30 WPB	8	W2504	70	320	506	32.5	0.19	0.21	0.53	0.008	0.005	0.14	0.001	0.08	0.03	0.011	152	0.316						YES	OK
7	LR 45 ELBOW SCH30 WPB	10	W2905	3	340	490	31	0.18	0.22	0.55	0.011	0.009	0.02	0.02	0.01	0.02	0.008	139	0.283						YES	OK
8	LR 45 ELBOW SCH60 WPB	8	W2904	49	312	518	35	0.18	0.22	0.56	0.011	0.007	0.03	0.01	0.01	0.02	0.009	140	0.285						YES	OK
9	LR 45 ELBOW SCH80 WPB	12	W3301	2	321	524	33	0.19	0.23	0.55	0.007	0.008	0.015	0.009	0.05	0.04	0.01	131	0.294						YES	OK
10	LR 45 ELBOW XS WPB	10	W3502	94	315	475	32	0.19	0.23	0.54	0.011	0.008	0.032	0.021	0.01	0.032	0.009	146	0.295						YES	OK
11	LR 90 ELBOW SCH100 WPB	10	W3701	2	279	484	31	0.21	0.23	0.55	0.012	0.009	0.018	0.01	0.06	0.03	0.011	138	0.315						YES	OK
12	LR 90 ELBOW SCH100 WPB	14	W3908	17	500	325	31.5	0.19	0.23	0.55	0.008	0.006	0.015	0.003	0.03	0.05	0.009	141	0.292						YES	OK
13	LR 90 ELBOW SCH100 WPB	16	W3906	3	295	495	32.5	0.21	0.24	0.51	0.013	0.008	0.04	0.05	0.09	0.09	0.01	146	0.327						YES	OK
14	LR 90 ELBOW SCH120 WPB	10	W3906	1	295	495	32.5	0.21	0.24	0.51	0.013	0.008	0.04	0.05	0.09	0.09	0.01	138	0.327						YES	OK
15	LR 90 ELBOW SCH140 WPB	8	W3908	1	500	325	31.5	0.19	0.23	0.55	0.008	0.006	0.015	0.003	0.03	0.05	0.009	144	0.292						YES	OK
16	LR 90 ELBOW SCH160 WPB	10	W3502	75	315	475	32	0.19	0.23	0.54	0.011	0.008	0.032	0.021	0.01	0.032	0.009	151	0.295						YES	OK
17	LR 90 ELBOW SCH60 WPB	20	W4705	2	314	510	30	0.22	0.24	0.50	0.015	0.01	0.04	0.008	0.06	0.01	0.005	144	0.319						YES	OK
18	LR 90 ELBOW SCH80 WPB	10	W3503	2	343	528	30	0.19	0.22	0.57	0.012	0.009	0.03	0.01	0.01	0.03	0.007	137	0.297						YES	OK
Note:				We hereby certify that the product(s) herein has been manufactured according to ASTM A 182, A 183, A 184, A 185, A 186, A 187, A 188, A 189, A 190, A 191, A 192, A 193, A 194, A 195, A 196, A 197, A 198, A 199, A 200, A 201, A 202, A 203, A 204, A 205, A 206, A 207, A 208, A 209, A 210, A 211, A 212, A 213, A 214, A 215, A 216, A 217, A 218, A 219, A 220, A 221, A 222, A 223, A 224, A 225, A 226, A 227, A 228, A 229, A 230, A 231, A 232, A 233, A 234, A 235, A 236, A 237, A 238, A 239, A 240, A 241, A 242, A 243, A 244, A 245, A 246, A 247, A 248, A 249, A 250, A 251, A 252, A 253, A 254, A 255, A 256, A 257, A 258, A 259, A 260, A 261, A 262, A 263, A 264, A 265, A 266, A 267, A 268, A 269, A 270, A 271, A 272, A 273, A 274, A 275, A 276, A 277, A 278, A 279, A 280, A 281, A 282, A 283, A 284, A 285, A 286, A 287, A 288, A 289, A 290, A 291, A 292, A 293, A 294, A 295, A 296, A 297, A 298, A 299, A 300, A 301, A 302, A 303, A 304, A 305, A 306, A 307, A 308, A 309, A 310, A 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883, A 884, A 885, A 886, A 887, A 888, A 889, A 890, A 891, A 892, A 893, A 894, A 895, A 896, A 897, A 898, A 899, A 900, A 901, A 902, A 903, A 904, A 905, A 906, A 907, A 908, A 909, A 910, A 911, A 912, A 913, A 914, A 915, A 916, A 917, A 918, A 919, A 920, A 921, A 922, A 923, A 924, A 925, A 926, A 927, A 928, A 929, A 930, A 931, A 932, A 933, A 934, A 935, A 936, A 937, A 938, A 939, A 940, A 941, A 942, A 943, A 944, A 945, A 946, A 947, A 948, A 949, A 950, A 951, A 952, A 953, A 954, A 955, A 956, A 957, A 958, A 959, A 960, A 961, A 962, A 963, A 964, A 965, A 966, A 967, A 968, A 969, A 970, A 971, A 972, A 973, A 974, A 975, A 976, A 977, A 978, A 979, A 980, A 981, A 982, A 983, A 984, A 985, A 986, A 987, A 988, A 989, A 990, A 991, A 992, A 993, A 994, A 995, A 996, A 997, A 998, A 999, A 1000.																			YES	OK		

Note:
1. All material is according to NACE MR 0175 / ISO 35156
2. YS=Yield Strength TS=Tensile Strength E=Elongation

We hereby certify that the product(s) herein, has been manufactured, sampled, tested, inspected & stamped manufactured, sampled, tested, inspected & stamped in accordance with the above standards and specifications.

Mitsuru Kobayashi

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BENEX CORPORATION(JAPAN)

I T E m	Product Description(1)	Size	Heat I.D.	Quantity (Pcs)	Tensile Test(2)				Chemical Description %											NACE MR 0175	Visual & Dim. Examin ation
					YS Mpa	TS Mpa	E %	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	HB	CE		
					240	415	(7)	-	0.10	0.29	-	-	-	-	-	-	-	-	-		
1	LR 90 ELBOW SCH80 WPB	12	W3301	1	321	524	33	0.19	0.23	0.55	0.007	0.008	0.015	0.009	0.05	0.04	0.01	131	0.294	YES	OK
2	LR 90 ELBOW SCH80 WPB	14	W3906	2	295	495	32.5	0.21	0.24	0.51	0.013	0.008	0.04	0.05	0.09	0.09	0.01	144	0.327	YES	OK
3	LR 90 ELBOW SCH80 WPB	16	W4502	8	322	504	34	0.18	0.23	0.58	0.012	0.009	0.03	0.01	0.01	0.03	0.007	142	0.289	YES	OK
4	LR 90 ELBOW SCH80 WPB	18	W4809	28	305	490	32.5	0.19	0.23	0.55	0.012	0.008	0.06	0.014	0.08	0.06	0.003	147	0.306	YES	OK
5	LR 90 ELBOW SCH80 WPB	20	W4921	9	318	494	30	0.19	0.26	0.56	0.016	0.004	0.001	0.001	0.01	0.01	0.001	151	0.285	YES	OK
6	LR 90 ELBOW XS WPB	6	W2502	177	320	496	32	0.2	0.24	0.53	0.012	0.009	0.016	0.019	0.02	0.036	0.012	135	0.301	YES	OK
7	LR 90 ELBOW XS WPB	12	W3703	77	325	500	32	0.2	0.23	0.52	0.01	0.009	0.034	0.022	0.03	0.024	0.01	144	0.303	YES	OK
8	LR 90 ELBOW XS WPB	18	W4501	77	310	490	31	0.19	0.22	0.55	0.009	0.006	0.05	0.03	0.05	0.05	0.009	139	0.306	YES	OK
9	LR 90 ELBOW XS WPB	20	W4702	8	398	499	34	0.19	0.23	0.55	0.011	0.007	0.03	0.01	0.01	0.02	0.008	140	0.293	YES	OK
10	LR 90 ELBOW XXS WPB	8	W3316	20	365	552	31	0.19	0.24	1.04	0.011	0.005	0.03	0.002	0.02	0.04	0.001	146	0.374	YES	OK
11	LR 90 ELBOW XXS WPB	10	W3316	21	365	552	31	0.19	0.24	1.04	0.011	0.005	0.03	0.002	0.02	0.04	0.001	144	0.374	YES	OK
12	SR 180 BEND STD WPB	6	W2504	48	320	506	32.5	0.19	0.21	0.53	0.008	0.005	0.14	0.001	0.08	0.03	0.011	138	0.316	YES	OK
13	SR 90 ELBOW SCH80 WPB	10	W3503	6	343	528	30	0.19	0.22	0.57	0.012	0.009	0.03	0.01	0.01	0.03	0.007	137	0.297	YES	OK
14	SR 90 ELBOW XS WPB	6	W2502	117	320	496	32	0.2	0.24	0.53	0.012	0.009	0.016	0.019	0.02	0.036	0.012	151	0.301	YES	OK
15	SR 90 ELBOW XS WPB	8	W3303	289	325	505	32	0.19	0.23	0.52	0.009	0.006	0.036	0.012	0.03	0.034	0.008	153	0.292	YES	OK
16	SR 90 ELBOW XS WPB	10	W3502	37	315	475	32	0.19	0.23	0.54	0.011	0.008	0.032	0.021	0.01	0.032	0.009	142	0.295	YES	OK
17																					
18																					

Note:
1. All Material is According To JIS G 3101 / S 50 15156
2. YS= Yield Strength TS= Tensile Strength E= Elongation

We hereby certify that the product(s) herein, has been manufactured, sampled, tested, inspected & stamped manufactured, sampled, tested, inspected & stamped in accordance with the above standards and specifications.

Mitsuru Kobayashi