CHONG CHEONG
FOUNDRY WORKS PTE LTD

3PE Anti-Corrosion Steel Pipe

PURA PIPING



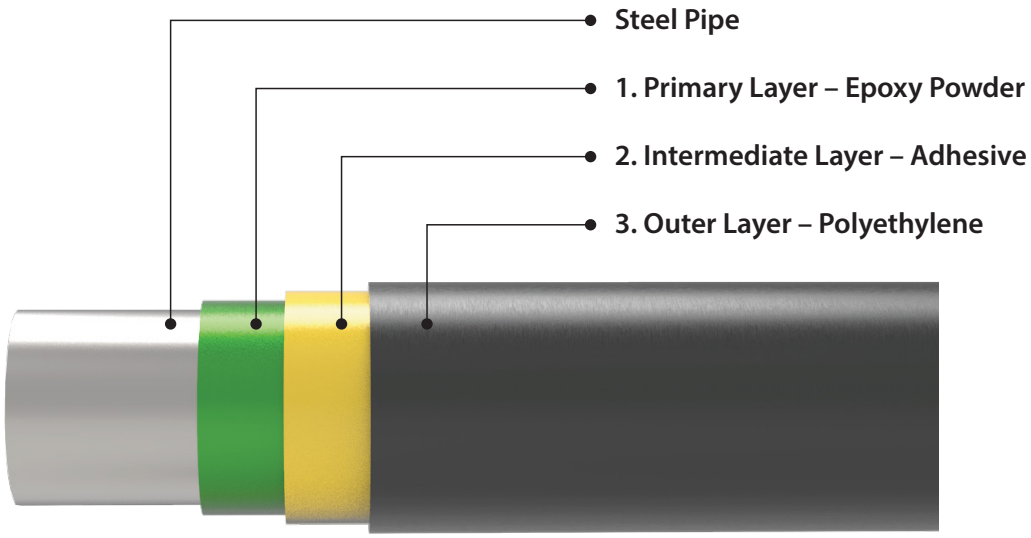
Updated on: 2026.10.07

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SOCOTEC CERTIFICATION INTERNATIONAL ISO 9001
SAC Accredited Certification Body QS-1999-05

Anti-corrosion 3PE Coating for Buried Steel Pipeline

3PE coating consists of 3 layers:



Thickness of 3PE Layers

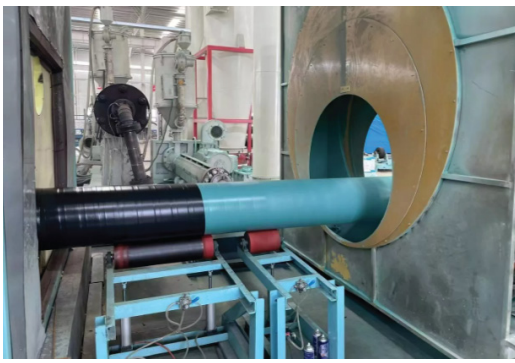
Standards Compliant: DIN30670 and GB/T23257

Pipe Size	Epoxy Powder	Adhesive	3PE minimum		Steel Pipe Types
DN (mm)	μm	μm	G Class	S Class	Welded or Seamless
DN ≤ 100	≥ 80	170~250	1.8 mm	2.5 mm	
100 < DN ≤ 250	≥ 80	170~250	2.0 mm	2.7 mm	
250 < DN ≤ 500	≥ 80	170~250	2.2 mm	2.9 mm	
500 < DN ≤ 800	≥ 80	170~250	2.5 mm	3.2 mm	
DN ≥ 800	≥ 80	170~250	3.0 mm	3.7 mm	

* General Class is applicable in most cases while Strong Class is needed where high mechanical strength of the PE layers is required.







Pipes

Pipe | API 5L ASTM/ASME A106 ASTM/ASME A53 B36.10

Unit : mm

Nominal Pipe Size	Customary Unit			Identification	Schedule	DN	SI Units		
	Outside Diameter	Wall Thickness	Plain End Weight	STD,XS or XXS			Outside Diameter	Wall Thickness	Plain End Mass
	INCH	INCH	LB/FT				MM	MM	KG/M
18"	18.000	0.281	53.23	-	-	450	457.0	7.14	79.21
18"	18.000	0.312	58.99	-	20	450	457.0	7.92	87.71
18"	18.000	0.344	64.93	-	-	450	457.0	8.74	96.62
18"	18.000	0.375	70.65	STD	-	450	457.0	9.53	105.17
18"	18.000	0.406	76.36	-	-	450	457.0	10.31	113.58
18"	18.000	0.438	82.23	-	30	450	457.0	11.13	122.38
18"	18.000	0.469	87.89	-	-	450	457.0	11.91	130.73
18"	18.000	0.500	93.54	XS	-	450	457.0	12.70	139.16
18"	18.000	0.562	104.76	-	40	450	457.0	14.27	155.81
18"	18.000	0.625	116.09	-	-	450	457.0	15.88	172.75
18"	18.000	0.688	127.32	-	-	450	457.0	17.48	189.47
18"	18.000	0.750	138.30	-	60	450	457.0	19.05	205.75
18"	18.000	0.812	149.20	-	-	450	457.0	20.62	221.91
18"	18.000	0.875	160.18	-	-	450	457.0	22.23	238.35
18"	18.000	0.938	171.08	-	80	450	457.0	23.83	254.57
18"	18.000	1.000	181.73	-	-	450	457.0	25.40	270.36
18"	18.000	1.062	192.29	-	-	450	457.0	26.97	286.02
18"	18.000	1.125	202.94	-	-	450	457.0	28.58	301.96
18"	18.000	1.156	208.15	-	100	450	457.0	29.36	309.64
18"	18.000	1.188	213.51	-	-	450	457.0	30.18	317.68
18"	18.000	1.250	223.82	-	-	450	457.0	31.75	332.97
18"	18.000	1.375	244.37	-	120	450	457.0	34.93	363.58
18"	18.000	1.562	274.48	-	140	450	457.0	39.67	408.28
18"	18.000	1.781	308.79	-	160	450	457.0	45.24	459.39
20"	20.000	0.188	39.82	-	5	500	508.0	4.78	59.32
20"	20.000	0.219	46.31	-	-	500	508.0	5.56	68.89
20"	20.000	0.250	52.78	-	10	500	508.0	6.35	78.56
20"	20.000	0.281	59.23	-	-	500	508.0	7.14	88.19
20"	20.000	0.312	65.66	-	-	500	508.0	7.92	97.68
20"	20.000	0.344	72.28	-	-	500	508.0	8.74	107.61
20"	20.000	0.375	78.67	STD	20	500	508.0	9.53	117.15
20"	20.000	0.406	85.04	-	-	500	508.0	10.31	126.54
20"	20.000	0.438	91.59	-	-	500	508.0	11.13	136.38
20"	20.000	0.469	97.92	-	-	500	508.0	11.91	145.71
20"	20.000	0.500	104.23	XS	30	500	508.0	12.70	155.13
20"	20.000	0.562	116.78	-	-	500	508.0	14.27	173.75
20"	20.000	0.594	123.23	-	40	500	508.0	15.09	183.43
20"	20.000	0.625	129.45	-	-	500	508.0	15.88	192.73
20"	20.000	0.688	142.03	-	-	500	508.0	17.48	211.45
20"	20.000	0.750	154.34	-	-	500	508.0	19.05	229.71
20"	20.000	0.812	166.56	-	60	500	508.0	20.62	247.84
20"	20.000	0.875	178.89	-	-	500	508.0	22.23	266.31
20"	20.000	0.938	191.14	-	-	500	508.0	23.83	284.54
20"	20.000	1.000	203.11	-	-	500	508.0	25.40	302.30
20"	20.000	1.031	209.06	-	80	500	508.0	26.19	311.19
20"	20.000	1.062	215.00	-	-	500	508.0	26.97	319.94
20"	20.000	1.125	227.00	-	-	500	508.0	28.58	337.91
20"	20.000	1.188	238.91	-	-	500	508.0	30.18	355.63
20"	20.000	1.250	250.55	-	-	500	508.0	31.75	372.91
20"	20.000	1.281	256.34	-	100	500	508.0	32.54	381.55

Pipes

Pipe | API 5L ASTM/ASME A106 ASTM/ASME A53 B36.10

Unit : mm

Nominal Pipe Size	Customary Unit			Identification	Schedule	DN	SI Units		
	Outside Diameter	Wall Thickness	Plain End Weight	STD,XS or XXS			Outside Diameter	Wall Thickness	Plain End Mass
	INCH	INCH	LB/FT				MM	MM	KG/M
20"	20.000	1.312	262.10	-	-	500	508.0	33.32	390.05
20"	20.000	1.375	273.76	-	-	500	508.0	34.93	407.51
20"	20.000	1.500	296.65	-	120	500	508.0	38.10	441.52
20"	20.000	1.750	341.41	-	140	500	508.0	44.45	508.15
20"	20.000	1.969	379.53	-	160	500	508.0	50.01	564.85
22"	22.000	0.188	43.84	-	5	550	559.0	4.78	65.33
22"	22.000	0.219	50.99	-	-	550	559.0	5.56	75.89
22"	22.000	0.250	58.13	-	10	550	559.0	6.35	86.55
22"	22.000	0.281	65.24	-	-	550	559.0	7.14	97.17
22"	22.000	0.312	72.34	-	-	550	559.0	7.92	107.64
22"	22.000	0.344	79.64	-	-	550	559.0	8.74	118.60
22"	22.000	0.375	86.69	STD	20	550	559.0	9.53	129.14
22"	22.000	0.406	93.72	-	-	550	559.0	10.31	139.51
22"	22.000	0.438	100.96	-	-	550	559.0	11.13	150.38
22"	22.000	0.469	107.95	-	-	550	559.0	11.91	160.69
22"	22.000	0.500	114.92	XS	30	550	559.0	12.70	171.10
22"	22.000	0.562	128.79	-	-	550	559.0	14.27	191.70
22"	22.000	0.625	142.81	-	-	550	559.0	15.88	212.70
22"	22.000	0.688	156.74	-	-	550	559.0	17.48	233.44
22"	22.000	0.750	170.37	-	-	550	559.0	19.05	253.67
22"	22.000	0.812	183.92	-	-	550	559.0	20.62	273.78
22"	22.000	0.875	197.60	-	60	550	559.0	22.23	294.27
22"	22.000	0.938	211.19	-	-	550	559.0	23.83	314.51
22"	22.000	1.000	224.49	-	-	550	559.0	25.40	334.25
22"	22.000	1.062	237.70	-	-	550	559.0	26.97	353.86
22"	22.000	1.125	251.05	-	80	550	559.0	28.58	373.85
22"	22.000	1.188	264.31	-	-	550	559.0	30.18	393.59
22"	22.000	1.250	277.27	-	-	550	559.0	31.75	412.84
22"	22.000	1.312	290.15	-	-	550	559.0	33.32	431.96
22"	22.000	1.375	303.16	-	100	550	559.0	34.93	451.45
22"	22.000	1.438	316.08	-	-	550	559.0	36.53	470.69
22"	22.000	1.500	328.72	-	-	550	559.0	38.10	489.44
22"	22.000	1.625	353.94	-	120	550	559.0	41.28	527.05
22"	22.000	1.875	403.38	-	140	550	559.0	47.63	600.67
22"	22.000	2.125	451.49	-	160	550	559.0	53.98	672.30
24"	24.000	0.218	55.42	-	5	600	610.0	5.54	82.58
24"	24.000	0.250	63.47	-	10	600	610.0	6.35	94.53
24"	24.000	0.281	71.25	-	-	600	610.0	7.14	106.15
24"	24.000	0.312	79.01	-	-	600	610.0	7.92	117.60
24"	24.000	0.344	86.99	-	-	600	610.0	8.74	129.60
24"	24.000	0.375	94.71	STD	20	600	610.0	9.53	141.12
24"	24.000	0.406	102.40	-	-	600	610.0	10.31	152.48
24"	24.000	0.438	110.32	-	-	600	610.0	11.13	164.38
24"	24.000	0.469	117.98	-	-	600	610.0	11.91	175.67
24"	24.000	0.500	125.61	XS	-	600	610.0	12.70	187.07
24"	24.000	0.562	140.81	-	30	600	610.0	14.27	209.65
24"	24.000	0.625	156.17	-	-	600	610.0	15.88	232.67
24"	24.000	0.688	171.45	-	40	600	610.0	17.48	255.43
24"	24.000	0.750	186.41	-	-	600	610.0	19.05	277.63
24"	24.000	0.812	201.28	-	-	600	610.0	20.62	299.71

Pipes

Pipe | API 5L ASTM/ASME A106 ASTM/ASME A53 B36.10

Unit : mm

Nominal Pipe Size	Customary Unit			Identification	Schedule	DN	SI Units		
	Outside Diameter	Wall Thickness	Plain End Weight	STD,XS or XXS			Outside Diameter	Wall Thickness	Plain End Mass
	INCH	INCH	LB/FT				MM	MM	KG/M
24"	24.000	0.875	216.31	-	-	600	610.0	22.23	322.23
24"	24.000	0.938	231.25	-	-	600	610.0	23.83	344.48
24"	24.000	0.969	238.57	-	60	600	610.0	24.61	355.28
24"	24.000	1.000	245.87	-	-	600	610.0	25.40	366.19
24"	24.000	1.062	260.41	-	-	600	610.0	26.97	387.79
24"	24.000	1.125	275.10	-	-	600	610.0	28.58	409.80
24"	24.000	1.188	289.71	-	-	600	610.0	30.18	431.55
24"	24.000	1.219	296.86	-	80	600	610.0	30.96	442.11
24"	24.000	1.250	304.00	-	-	600	610.0	31.75	452.77
24"	24.000	1.312	318.21	-	-	600	610.0	33.32	473.87
24"	24.000	1.375	332.56	-	-	600	610.0	34.93	495.38
24"	24.000	1.438	346.83	-	-	600	610.0	36.53	516.63
24"	24.000	1.500	360.79	-	-	600	610.0	38.10	537.36
24"	24.000	1.531	367.74	-	100	600	610.0	38.89	547.74
24"	24.000	1.562	374.66	-	-	600	610.0	39.67	557.97
24"	24.000	1.812	429.79	-	120	600	610.0	46.02	640.07
24"	24.000	2.062	483.57	-	140	600	610.0	52.37	720.19
24"	24.000	2.344	542.64	-	160	600	610.0	59.54	808.27
26"	26.000	0.250	68.82	-	-	650	660.0	6.35	102.36
26"	26.000	0.281	77.26	-	-	650	660.0	7.14	114.96
26"	26.000	0.312	85.68	-	10	650	660.0	7.92	127.36
26"	26.000	0.344	94.35	-	-	650	660.0	8.74	140.37
26"	26.000	0.375	102.72	STD	-	650	660.0	9.53	152.88
26"	26.000	0.406	111.08	-	-	650	660.0	10.31	165.19
26"	26.000	0.438	119.69	-	-	650	660.0	11.13	178.10
26"	26.000	0.469	128.00	-	-	650	660.0	11.91	190.36
26"	26.000	0.500	136.30	XS	20	650	660.0	12.70	202.74
26"	26.000	0.562	152.83	-	-	650	660.0	14.27	227.25
26"	26.000	0.625	169.54	-	-	650	660.0	15.88	252.25
26"	26.000	0.688	186.16	-	-	650	660.0	17.48	276.98
26"	26.000	0.750	202.44	-	-	650	660.0	19.05	301.12
26"	26.000	0.812	218.64	-	-	650	660.0	20.62	325.14
26"	26.000	0.875	235.01	-	-	650	660.0	22.23	349.64
26"	26.000	0.938	251.30	-	-	650	660.0	23.83	373.87
26"	26.000	1.000	267.25	-	-	650	660.0	25.40	397.51
28"	28.000	0.250	74.16	-	-	700	711.0	6.35	110.35
28"	28.000	0.281	83.26	-	-	700	711.0	7.14	123.94
28"	28.000	0.312	92.35	-	10	700	711.0	7.92	137.32
28"	28.000	0.344	101.70	-	-	700	711.0	8.74	151.37
28"	28.000	0.375	110.74	STD	-	700	711.0	9.53	164.86
28"	28.000	0.406	119.76	-	-	700	711.0	10.31	178.16
28"	28.000	0.438	129.05	-	-	700	711.0	11.13	192.10
28"	28.000	0.469	138.03	-	-	700	711.0	11.91	205.34
28"	28.000	0.500	146.99	XS	20	700	711.0	12.70	218.71
28"	28.000	0.562	164.84	-	-	700	711.0	14.27	245.19
28"	28.000	0.625	182.90	-	30	700	711.0	15.88	272.23
28"	28.000	0.688	200.87	-	-	700	711.0	17.48	298.96
28"	28.000	0.750	218.48	-	-	700	711.0	19.05	325.08
28"	28.000	0.812	236.00	-	-	700	711.0	20.62	351.07
28"	28.000	0.875	253.72	-	-	700	711.0	22.23	377.60

Pipes

Pipe | API 5L ASTM/ASME A106 ASTM/ASME A53 B36.10

Unit : mm

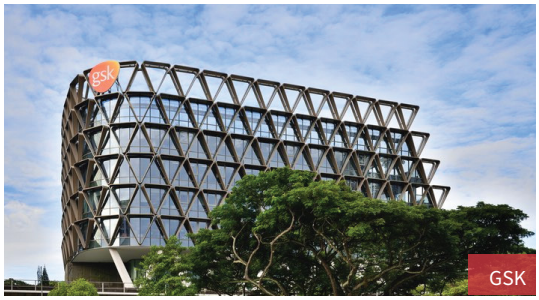
Nominal Pipe Size	Customary Unit			Identification	Schedule	DN	SI Units		
	Outside Diameter	Wall Thickness	Plain End Weight	STD,XS or XXS			Outside Diameter	Wall Thickness	Plain End Mass
	INCH	INCH	LB/FT				MM	MM	KG/M
28"	28.000	0.938	271.36	-	-	700	711.0	23.83	403.84
28"	28.000	1.000	288.63	-	-	700	711.0	25.40	429.46
30"	30.000	0.250	79.51	-	5	750	762.0	6.35	118.34
30"	30.000	0.281	89.27	-	-	750	762.0	7.14	132.92
30"	30.000	0.312	99.02	-	10	750	762.0	7.92	147.29
30"	30.000	0.344	109.06	-	-	750	762.0	8.74	162.36
30"	30.000	0.375	118.76	STD	-	750	762.0	9.53	176.85
30"	30.000	0.406	128.44	-	-	750	762.0	10.31	191.12
30"	30.000	0.438	138.42	-	-	750	762.0	11.13	206.10
30"	30.000	0.469	148.06	-	-	750	762.0	11.91	220.32
30"	30.000	0.500	157.68	XS	20	750	762.0	12.70	234.68
30"	30.000	0.562	176.86	-	-	750	762.0	14.27	263.14
30"	30.000	0.625	196.26	-	30	750	762.0	15.88	292.20
30"	30.000	0.688	215.58	-	-	750	762.0	17.48	320.95
30"	30.000	0.750	234.51	-	-	750	762.0	19.05	349.04
30"	30.000	0.812	253.36	-	-	750	762.0	20.62	377.01
30"	30.000	0.875	272.43	-	-	750	762.0	22.23	405.56
30"	30.000	0.938	291.41	-	-	750	762.0	23.83	433.81
30"	30.000	1.000	310.01	-	-	750	762.0	25.40	461.41
30"	30.000	1.062	328.53	-	-	750	762.0	26.97	488.88
30"	30.000	1.125	347.26	-	-	750	762.0	28.58	516.93
30"	30.000	1.188	365.90	-	-	750	762.0	30.18	544.68
30"	30.000	1.250	384.17	-	-	750	762.0	31.75	571.79
32"	32.000	0.250	84.85	-	-	800	813.0	6.35	126.32
32"	32.000	0.281	95.28	-	-	800	813.0	7.14	141.90
32"	32.000	0.312	105.69	-	10	800	813.0	7.92	157.25
32"	32.000	0.344	116.41	-	-	800	813.0	8.74	173.35
32"	32.000	0.375	126.78	STD	-	800	813.0	9.53	188.83
32"	32.000	0.406	137.12	-	-	800	813.0	10.31	204.09
32"	32.000	0.438	147.78	-	-	800	813.0	11.13	220.10
32"	32.000	0.469	158.08	-	-	800	813.0	11.91	235.29
32"	32.000	0.500	168.37	XS	20	800	813.0	12.70	250.65
32"	32.000	0.562	188.87	-	-	800	813.0	14.27	281.09
32"	32.000	0.625	209.62	-	30	800	813.0	15.88	312.17
32"	32.000	0.688	230.29	-	40	800	813.0	17.48	342.94
32"	32.000	0.750	250.55	-	-	800	813.0	19.05	373.00
32"	32.000	0.812	270.72	-	-	800	813.0	20.62	402.94
32"	32.000	0.875	291.14	-	-	800	813.0	22.23	433.52
32"	32.000	0.938	311.47	-	-	800	813.0	23.83	463.78
32"	32.000	1.000	331.39	-	-	800	813.0	25.40	493.35
32"	32.000	1.062	351.23	-	-	800	813.0	26.97	522.80
32"	32.000	1.125	371.31	-	-	800	813.0	28.58	552.88
32"	32.000	1.188	391.30	-	-	800	813.0	30.18	582.64
32"	32.000	1.250	410.90	-	-	800	813.0	31.75	611.72
34"	34.000	0.250	90.20	-	-	850	864.0	6.35	134.31
34"	34.000	0.281	101.29	-	-	850	864.0	7.14	150.88
34"	34.000	0.312	112.36	-	10	850	864.0	7.92	167.21
34"	34.000	0.344	123.77	-	-	850	864.0	8.74	184.34
34"	34.000	0.375	134.79	STD	-	850	864.0	9.53	200.82
34"	34.000	0.406	145.80	-	-	850	864.0	10.31	217.06

Project Reference

Our Steel Pipe System are seen applied in these various project references:



ST Marine



GSK


UMC


WEST Infrastructure Upgrade Project



Housing Development Board



Alcon



Carousell



Siltronic



Abbott

SPgroup

ANG MO KIO DISTRICT COOLING PLANT


PUB Water Hub @ Toh Guan


Pfizer



SingTel Data Center



MSD

Project Reference

Our Steel Pipe System are seen applied in these various project references:























Our Custom Services



Welding



Sawing Machine



CNC Milling Machine



Pipe Threading



Contact Us

Please feel free to contact us via e-mail or phone. We will be glad to answer your questions, concerns and/or feedback.

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