



JABATAN AIR SABAH

Butiran Pendaftaran

No Sijil : **JANS.2026.97**

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Lot 4, Jalan P/2A, Kawasan Perindustrian Bangi,
43650 Bandar Baru Bangi, Selangor

Nama Pengilang : **GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO. LTD**
Liansu Industrial Estate, Longzhou Road, Longjiang Town,
Shunde District, 528318 Foshan, Guangdong, China

Nama Prinsipal / Pemilik : **SPIROLITE (M) SDN BHD**
Lot 4, Jalan P/2A, Kawasan Perindustrian Bangi,
43650 Bandar Baru Bangi, Selangor

Nama Produk : Polyethylene (PE) Electrofusion & Polyethylene (PE) Butt-Fusion Fittings

Kategori : A - Conveyance Of Water

Kelas/Saiz/Model : (Sila rujuk Jadual di muka surat belakang)

Jenama : **LESSO**

Piawaian : MS 1058-3 : 2023

Tarikh Dikeluarkan : 14 September 2026

Sah Sehingga : 14 September 2028

Perihal Produk :

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
1	ELBOW 45°	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 315, 355 AND 400
2	ELBOW 90°	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 315, 355 AND 400
3	TEE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 315, 355 AND 400
4	REDUCING TEE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 32x20, 32x25, 40x20, 40x25, 40x32, 50x20, 50x25, 50x32, 50x40, 63x20, 63x25, 63x32, 63x40, 63x50, 75x40, 75x50, 75x63, 90x40, 90x50, 90x63, 90x75, 110x50, 110x63, 110x75, 110x90, 125x63, 125x75, 125x90, 125x110, 160x50, 160x63, 160x75, 160x90, 160x110, 180x160, 200x50, 200x63, 200x75, 200x90, 200x110, 200x160, 225x160, 250x50, 250x63, 250x75, 250x90, 250x110, 250x160, 250x200, 315x90, 315x110, 315x160, 315x200, 315x250, 400x110, 400x160, 400x200, 400x250 AND 400x315

5	REDUCER	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 32x25, 40x32, 50x32, 50x40, 63x32, 63x40, 63x50, 75x63, 90x63, 90x75, 110x50, 110x63, 110x75, 110x90, 125x90, 125x110, 160x90, 160x110, 200x110, 200x160, 225x110, 225x160, 250x110, 250x160, 250x200, 315x160, 315x200, 315x250, 400x200 AND 400x315
6	COUPLER	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560 AND 630
7	STUD END	PN16, SDR 11, PE100	TYPE : JOINT WITH BUTT FUSION SIZE ND (mm) : 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400 AND 500
8	END CAP	PN16, SDR 11, PE100	TYPE : JOINT WITH BUTT FUSION SIZE ND (mm): 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 315, 355 AND 400
9	TAPPING SADDLE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 63x25, 63x32, 75x32, 90x32, 90x63, 110x32, 110x40, 110x63, 125x32, 125x63, 160x32, 160x63, 180x32, 180x63, 200x32, 200x63, 200x90, 250x90, 315x110 AND 315x160
10	STRAIGHT SADDLE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 75x63, 90x63, 110x63, 125x63, 180x63, 200x63, 200x90, 250x63, 250x90, 315x63, 315x90, 315x110 AND 315x160
11	STOP SADDLE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 90, 110, 125, 160, 200, 250 AND 315
12	ELBOW 11.25°	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 50, 63, 75, 90, 110 AND 125
13	ELBOW 22.5°	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 50, 63, 75, 90, 110 AND 125
14	NEW TYPE ELECTRO FUSION COUPLER	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 90, 110, 125, 160 AND 200
15	STUB FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 50, 63, 75, 90, 110, 160, 200, 225, 250, 315, 355, 400, 450, 500 AND 630
16	STUB FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 110

17	FLANGE (STEEL TRAY)	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 50, 63, 75, 90, 110, 160, 200, 250, 315, 400, 450, 500 AND 630
18	REDUCER	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75×63, 90×63, 90×75, 110×50, 110×63, 110×75, 110×90, 125×63, 125×90, 125×110, 160×90, 160×110, 160×125, 180×63, 180×110, 180×160, 200×110, 200×160, 200×180, 225×160, 225×200, 250×110, 250×160, 250×200, 250×225, 315×160, 315×180, 315×200, 315×225, 315×250 AND 400×225
19	REDUCER	PN12.5, SDR 13.6, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 280×110, 280×160, 280×200, 315×110, 315×160, 315×200, 315×225, 315×250 AND 315×280
20	REDUCER	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75×63, 90×63, 90×75, 110×50, 110×63, 110×75, 110×90, 125×63, 125×90, 125×110, 160×90, 160×110, 160×125, 180×63, 180×110, 180×160, 200×110, 200×160, 200×180, 225×160, 225×200, 250×110, 250×160, 250×200, 250×225, 280×110, 280×160, 280×200, 315×110, 315×160, 315×180, 315×200, 315×225, 315×250, 315×280, 355×200, 355×250, 355×315, 400×200, 400×225, 400×250, 400×280, 400×315, 450×200, 450×250, 450×315, 500×315, 500×355, 500×400, 500×450, 560×400, 560×450, 560×500, 630×315, 630×400 AND 630×500
21	REDUCER	PN6, SDR 26, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 500×315, 500×355, 500×400, 500×450, 560×315, 560×400, 560×450 AND 560×500
22	ELBOW 90°	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315 AND 355
23	ELBOW 90°	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315 AND 355
24	ELBOW 45°	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315 AND 400
25	ELBOW 45°	PN10, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75, 90, 110, 125, 160, 180, 200, 225, 250, 280 AND 315

26	CROSS	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 110, 125, 160, 200 AND 225
27	CROSS	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 160, 110, 125, 200, 225 AND 315
28	REDUCING TEE	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 110×63, 110×75, 110×90, 160×63, 160×75, 160×90, 160×110, 200×50, 200×63, 200×75, 200×90, 200×110, 200×160, 250×50, 250×63, 250×75, 250×90, 250×110, 250×160, 250×200, 315×110, 315×160, 315×180, 315×200, 400×315
29	REDUCING TEE	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 110×63, 110×75, 110×90, 160×63, 160×75, 160×90, 160×110, 200×90, 200×110, 200×160, 250×110, 250×160, 315×110, 315×160 AND 315×200
30	ELBOW 22.5°	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 225
31	ELBOW 22.5°	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 225
32	TEE	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 110, 125, 160, 180, 200, 220, 250, 280 AND 315
33	TEE	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 110, 125, 160, 180, 200, 220, 250, 280, 315, 355 AND 400
34	TEE	PN6, SDR 26, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 355
35	CAP	PN12.5, SDR 13.6, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 280
36	CAP	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, AND 630
37	STUB FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 560
38	STUB FLANGE	PN12.5, SDR 13.6, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 355

39	STUB FLANGE	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560 AND 630
40	STUB FLANGE	PN6, SDR 26, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 500, 560 AND 630
41	FLANGE (STEEL TRAY)	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560 AND 630
42	FLANGE (STEEL RAY)	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560 AND 630
43	SPACER FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 110, 160 AND 200
44	SPACER FLANGE	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 160 AND 200
45	COUPLING (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63, 75, 90, 110
46	REDUCER (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 25x20, 32x20, 32x25, 40x20, 40x25, 40x32, 50x20, 50x25, 50x32, 50x40, 63x25, 63x32, 63x40, 63x50, 75x32, 75x40, 75x50, 75x63, 90x40, 90x50, 90x63, 90x75, 110x63
47	90° ELBOW (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63, 75, 90, 110
48	45° ELBOW (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63, 75, 90, 110
49	TEE (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63, 75, 90, 110
50	REDUCE TEE (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 25x20, 32x20, 32x25, 40x20, 40x25, 40x32, 50x20, 50x25, 50x32, 50x40, 63x25, 63x32, 63x40, 63x50, 75x32, 75x40, 75x50, 75x63, 90x40, 90x50, 90x63, 90x75
51	CAP (SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32, 40, 50, 63, 75, 90,

			110
52	FEMALE THREAD UNION (SOC x FIPT with Metal)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32, 40, 50, 63
53	MALE THREAD UNION (SOC x MIPT with Metal)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32, 40, 50, 63
54	FLEXIBLE JOINT (SOC x FIPT with Metal)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32, 63
55	CHANGE UNION (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32
56	PE SINGLE MALE MANIFOLD	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 50
57	STUB FLANGE (SOC x FLANGE)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 50, 63, 75
58	FLANGE (STEEL RAY)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 50, 63, 75
59	FEMALE THREAD ADAPTER I (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32
60	FEMALE THREAD ADAPTER II (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 32, 40, 50, 63, 75
61	MALE THREAD ADAPTER I (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32
62	MALE THREAD ADAPTER II (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 32, 40, 50, 63, 75
63	FEMALE THREAD ELBOW I (SOC x MIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32
64	FEMALE THREAD ELBOW II	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 32, 40, 50, 63

	(SOC x FIPT with Metal Insert)		
65	MALE THREAD ELBOW I (SOC x MIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32
66	MALE THREAD ELBOW II (SOC x MIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 32, 40, 50, 63
67	FEMALE THREAD ELBOW WITH BASE (SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25
68	MALE THREAD ELBOW WITH BASE (SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25
69	FEMALE THREAD TEE I (SOC x SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32
70	FEMALE THREAD TEE II (SOC x SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 32, 50, 63, 75
71	MALE THREAD TEE I (SOC x SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32
72	MALE THREAD TEE II (SOC x SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 32, 50, 63, 75