PRODUCT CATALOGUE

SUSLiD Multilayer Pipe Catalogue

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Contents

1	PEX–AL–PEX Multilayer Pipe · 14 models
2	PE–RT/AL/PE–RT Multilayer Pipe · 14 models
3	PE–AL–PE Multilayer Pipe (cold water & compressed air) · 5 models
4	PP–R/AL/PP–R Composite Pipe · 7 models
5	PE–AL–PE Gas Pipe · 5 models
6	Quality & inspection

We specialize in multilayer composite pipes, supplied as coils and straight lengths. Please select fittings for the corresponding pipe dimensions and installation system.

PEX–AL–PEX Multilayer Pipe

Cross–linked PE inner and outer layers bonded to an aluminium core.

Models and sizes

Model	Version	OD × wall thickness	Aluminium layer	Nominal pressure	Supply form
SL–PXP–1620	Overlap–welded	16 × 2.0	0.20	10 bar	100 / 200 m coils
SL–PXP–2020	Overlap–welded	20 × 2.0	0.25	10 bar	100 / 200 m coils
SL–PXP–2525	Overlap–welded	25 × 2.5	0.30	10 bar	50 / 100 m coils
SL–PXP–2630	Overlap–welded	26 × 3.0	0.30	10 bar	50 / 100 m coils
SL–PXP–3230	Overlap–welded	32 × 3.0	0.40	10 bar	50 / 100 m coils
SL–PXP–4035	Overlap–welded	40 × 3.5	0.50	10 bar	4 m / 5.8 m straight lengths
SL–PXP–5040	Overlap–welded	50 × 4.0	0.50	10 bar	4 m / 5.8 m straight lengths
SL–PXP–6345	Overlap–welded	63 × 4.5	0.60	10 bar	4 m / 5.8 m straight lengths
SL–PXP–7550	Overlap–welded	75 × 5.0	0.70	10 bar	4 m / 5.8 m straight lengths
SL–PXP–1620–B	Butt–welded	16 × 2.0	0.20	10 bar	100 / 200 m coils
SL–PXP–2020–B	Butt–welded	20 × 2.0	0.25	10 bar	100 / 200 m coils
SL–PXP–2525–B	Butt–welded	25 × 2.5	0.30	10 bar	50 / 100 m coils
SL–PXP–2630–B	Butt–welded	26 × 3.0	0.30	10 bar	50 / 100 m coils
SL–PXP–3230–B	Butt–welded	32 × 3.0	0.40	10 bar	50 / 100 m coils

Technical data

Designed with reference to	EN ISO 21003 · GB/T 18997.1 / GB/T 18997.2
Application class	Class 2 / Class 5 @ 10 bar
Nominal pressure	10 bar (1.0 MPa)
Max. operating temperature	95 °C
Short–term max. temperature	110 °C
Aluminium layer welding	Overlap–welded; butt–welded models carry –B
Thermal conductivity	0.43 W/(m·K)
Linear expansion	0.025 mm/(m·K)
Bending radius	⩾ 5 × OD by hand, ⩾ 3 × OD with a bending spring (16—32 mm)
Colours	White; other outer colours for OEM orders
Supply form	16—20 mm: 100 / 200 m coils · 25—32 mm: 50 / 100 m coils · 40—75 mm: 4 m / 5.8 m straight lengths
Joining	Press or compression fittings for multilayer pipe (16—32 mm); press fittings for 40—75 mm
Pipe marking	Model, size, production date and batch number printed along the pipe
Dimensional tolerance	OD +0.3 / 0 mm

Manufacturing & Supply Basis: Listed values are catalogue specifications. Production tolerances, marking and packing follow the approved sample and order technical schedule. Confirm the project temperature–pressure profile separately. We specialize in multilayer composite pipes, supplied as coils and straight lengths. Please select fittings for the corresponding pipe dimensions and installation system.

PE-RT/AL/PE-RT Multilayer Pipe

Heat-resistant PE-RT layers, flexible and easy to install.

Models and sizes

Model	Version	OD × wall thickness	Aluminium layer	Nominal pressure	Supply form
SL-PRP-1620	Overlap-welded	16 × 2.0	0.20	10 bar	100 / 200 m coils
SL-PRP-2020	Overlap-welded	20 × 2.0	0.25	10 bar	100 / 200 m coils
SL-PRP-2525	Overlap-welded	25 × 2.5	0.30	10 bar	50 / 100 m coils
SL-PRP-2630	Overlap-welded	26 × 3.0	0.30	10 bar	50 / 100 m coils
SL-PRP-3230	Overlap-welded	32 × 3.0	0.40	10 bar	50 / 100 m coils
SL-PRP-4035	Overlap-welded	40 × 3.5	0.50	10 bar	4 m / 5.8 m straight lengths
SL-PRP-5040	Overlap-welded	50 × 4.0	0.50	10 bar	4 m / 5.8 m straight lengths
SL-PRP-6345	Overlap-welded	63 × 4.5	0.60	10 bar	4 m / 5.8 m straight lengths
SL-PRP-7550	Overlap-welded	75 × 5.0	0.70	10 bar	4 m / 5.8 m straight lengths
SL-PRP-1620-B	Butt-welded	16 × 2.0	0.20	10 bar	100 / 200 m coils
SL-PRP-2020-B	Butt-welded	20 × 2.0	0.25	10 bar	100 / 200 m coils
SL-PRP-2525-B	Butt-welded	25 × 2.5	0.30	10 bar	50 / 100 m coils
SL-PRP-2630-B	Butt-welded	26 × 3.0	0.30	10 bar	50 / 100 m coils
SL-PRP-3230-B	Butt-welded	32 × 3.0	0.40	10 bar	50 / 100 m coils

Technical data

Designed with reference to	EN ISO 21003 · GB/T 18997.1 / GB/T 18997.2
Application class	Class 2 / Class 5 @ 10 bar
Nominal pressure	10 bar (1.0 MPa)
Max. operating temperature	95 °C
Short-term max. temperature	110 °C
Aluminium layer welding	Overlap-welded; butt-welded models carry -B
Thermal conductivity	0.43 W/(m·K)
Linear expansion	0.025 mm/(m·K)
Bending radius	⩾ 5 × OD by hand, ⩾ 3 × OD with a bending spring (16—32 mm)
Colours	White, orange; other outer colours for OEM orders
Supply form	16—20 mm: 100 / 200 m coils · 25—32 mm: 50 / 100 m coils · 40—75 mm: 4 m / 5.8 m straight lengths
Joining	Press or compression fittings for multilayer pipe (16—32 mm); press fittings for 40—75 mm
Pipe marking	Model, size, production date and batch number printed along the pipe
Dimensional tolerance	OD +0.3 / 0 mm

Manufacturing & Supply Basis: Listed values are catalogue specifications. Production tolerances, marking and packing follow the approved sample and order technical schedule. Confirm the project temperature-pressure profile separately. We specialize in multilayer composite pipes, supplied as coils and straight lengths. Please select fittings for the corresponding pipe dimensions and installation system.

PE–AL–PE Multilayer Pipe (cold water & compressed air)

Polyethylene layers with aluminium core for cold water and compressed air.

Models and sizes

Model	Version	OD × wall thickness	Aluminium layer	Nominal pressure	Supply form
SL–PEP–1620	Overlap–welded	16 × 2.0	0.20	10 bar	100 / 200 m coils
SL–PEP–2020	Overlap–welded	20 × 2.0	0.25	10 bar	100 / 200 m coils
SL–PEP–2525	Overlap–welded	25 × 2.5	0.30	10 bar	50 / 100 m coils
SL–PEP–2630	Overlap–welded	26 × 3.0	0.30	10 bar	50 / 100 m coils
SL–PEP–3230	Overlap–welded	32 × 3.0	0.40	10 bar	50 / 100 m coils

Technical data

Designed with reference to	GB/T 18997.1 (cold–water type)
Application class	Cold water ⩽ 40 °C @ 10 bar
Nominal pressure	10 bar (1.0 MPa)
Max. operating temperature	60 °C
Aluminium layer welding	Overlap–welded aluminium layer
Thermal conductivity	0.45 W/(m·K)
Linear expansion	0.025 mm/(m·K)
Bending radius	⩾ 5 × OD by hand, ⩾ 3 × OD with a bending spring (16—32 mm)
Colours	Blue, black or white
Supply form	16—20 mm: 100 / 200 m coils · 25—32 mm: 50 / 100 m coils
Joining	Press or compression fittings for multilayer pipe
Pipe marking	Model, size, production date and batch number printed along the pipe
Dimensional tolerance	OD +0.3 / 0 mm

Manufacturing & Supply Basis: Listed values are catalogue specifications. Production tolerances, marking and packing follow the approved sample and order technical schedule. Confirm the project temperature–pressure profile separately. We specialize in multilayer composite pipes, supplied as coils and straight lengths. Please select fittings for the corresponding pipe dimensions and installation system.

PP–R/AL/PP–R Composite Pipe

Rigid PP–R composite with aluminium layer for low linear expansion.

Models and sizes

Model	Version	OD × wall thickness	Aluminium layer	Nominal pressure	Supply form
SL–PPP–2034	Overlap–welded	20 × 3.4	0.20	PN20	4 m straight lengths
SL–PPP–2542	Overlap–welded	25 × 4.2	0.20	PN20	4 m straight lengths
SL–PPP–3254	Overlap–welded	32 × 5.4	0.25	PN20	4 m straight lengths
SL–PPP–4067	Overlap–welded	40 × 6.7	0.30	PN20	4 m straight lengths
SL–PPP–5083	Overlap–welded	50 × 8.3	0.35	PN20	4 m straight lengths
SL–PPP–63105	Overlap–welded	63 × 10.5	0.40	PN20	4 m straight lengths
SL–PPP–75125	Overlap–welded	75 × 12.5	0.45	PN20	4 m straight lengths

Technical data

Designed with reference to	ISO 15874 · GB/T 18742
Application class	Class 1 / Class 2 @ 10 bar
Nominal pressure	PN20 (2.0 MPa @ 20 °C)
Max. operating temperature	95 °C (70 °C continuous)
Short–term max. temperature	110 °C
Aluminium layer welding	Overlap–welded aluminium layer
Thermal conductivity	0.24 W/(m·K)
Linear expansion	0.03 mm/(m·K)
Bending radius	Rigid pipe — use fittings for changes of direction
Colours	White, green, grey
Supply form	4 m straight lengths
Joining	Socket heat fusion with PP–R fittings (strip the aluminium layer before fusion)
Pipe marking	Model, size, production date and batch number printed along the pipe
Dimensional tolerance	OD +0.3 / 0 mm

Manufacturing & Supply Basis: Listed values are catalogue specifications. Production tolerances, marking and packing follow the approved sample and order technical schedule. Confirm the project temperature–pressure profile separately. We specialize in multilayer composite pipes, supplied as coils and straight lengths. Please select fittings for the corresponding pipe dimensions and installation system.

PE–AL–PE Gas Pipe

Yellow–jacketed PE–AL–PE pipe for low–pressure gas lines, ⩽ 0.4 MPa.

Models and sizes

Model	Version	OD × wall thickness	Aluminium layer	Nominal pressure	Supply form
SL–PEG–1620	Overlap–welded	16 × 2.0	0.20	0.4 MPa	100 / 200 m coils
SL–PEG–2020	Overlap–welded	20 × 2.0	0.25	0.4 MPa	100 / 200 m coils
SL–PEG–2525	Overlap–welded	25 × 2.5	0.30	0.4 MPa	50 / 100 m coils
SL–PEG–3230	Overlap–welded	32 × 3.0	0.40	0.4 MPa	50 / 100 m coils
SL–PEG–4035	Overlap–welded	40 × 3.5	0.50	0.4 MPa	50 / 100 m coils

Technical data

Designed with reference to	GB/T 18997.1 (gas type) · ISO 17484
Application class	Gas ⩽ 0.4 MPa, −20 to 60 °C
Nominal pressure	0.4 MPa (4 bar)
Max. operating temperature	60 °C
Aluminium layer welding	Overlap–welded aluminium layer
Thermal conductivity	0.45 W/(m·K)
Linear expansion	0.025 mm/(m·K)
Bending radius	⩾ 5 × OD by hand, ⩾ 3 × OD with a bending spring (16—32 mm)
Colours	Yellow outer layer
Supply form	16—20 mm: 100 / 200 m coils · 25—40 mm: 50 / 100 m coils
Joining	Fittings suited to gas service, selected according to the system
Pipe marking	Model, size, production date and batch number printed along the pipe
Dimensional tolerance	OD +0.3 / 0 mm

Manufacturing & Supply Basis: Listed values are catalogue specifications. Production tolerances, marking and packing follow the approved sample and order technical schedule. Confirm the project temperature–pressure profile separately. We specialize in multilayer composite pipes, supplied as coils and straight lengths. Please select fittings for the corresponding pipe dimensions and installation system.

Quality & inspection

Certificates and applicable documents

ISO-related certification	We hold ISO-related certificates. Contact our team for the relevant documents and their scope.
European market certificates	We hold certificates required for European markets. Send your destination country and selected models so we can confirm the applicable documents.

Raw material & in-process control

Incoming resin and aluminium strip batch check
On-line outside diameter and wall thickness measurement
Weld seam check of the aluminium layer

Finished-product inspection

Dimensions: outside diameter, wall thickness, ovality
Hydrostatic pressure check
Layer adhesion / peel check
Appearance and marking check

Batch traceability

Model, size, date and batch printed on the pipe
Batch number on coil label and carton
Inspection record kept per batch

Production process

1. Raw material inspection	Incoming resin and aluminum strip checked before production.
2. Inner layer extrusion	Inner plastic layer extruded to size.
3. Aluminum welding	Aluminum layer formed and welded around the inner pipe.
4. Adhesive & outer layer	Adhesive and outer layer co-extruded into one structure.
5. Inspection	Dimension, pressure and appearance checks.
6. Marking & packing	Printing, coiling, packing and shipment.

We specialize in multilayer composite pipes, supplied as coils and straight lengths. Please select fittings for the corresponding pipe dimensions and installation system.