09/06/2026
SMISP34STD100

MINERAL M200 BioZinalium pipes DN150 to 1600 with STANDARD socket

DN	Lu (m)	e (mm)	er (mm)	ØDE (mm)	ØDI (mm)	P (mm)	ØB (mm)	PFA	Mass (kg/m)	References
150	6.00	5	4	170	173.4	100.5	220.8	40 bar	23.83	USB15S60BP
200	6.00	5.1	4	222	225.2	106.5	275.1	40 bar	32.01	USB20S60BP
250	6.00	5.3	4	274	276.8	105.5	328.6	38 bar	41.03	USB25S60BP
300	6.00	5.6	4	326	328.8	107.5	385.3	35 bar	51.26	USB30S60BP
350	6.00	6	5	378	380.9	110.5	464.2	32 bar	65.60	USB35S60BP
400	6.00	6.3	5	429	431.9	112.5	516.2	30 bar	77.50	USB40S60BP
450	6.00	6.7	5	480	483	115.5	574.2	29 bar	91.70	USB45S60BP
500	6.00	7	5	532	535	117.5	629.2	28 bar	105.40	USB50S60BP
600	6.00	7.7	5	635	638.1	132.5	738.5	26 bar	136.90	USB60S60BP
700	6.96	9.6	6	738.0	741.7	192	863	29 bar	199.00	USB70E70BP
800	6.95	10.4	6	842	845.8	197	974	28 bar	243.60	USB80E70BP
900	6.95	11.2	6	945	948.9	200	1082	27 bar	291.50	USB90E70BP
1000	6.96	12	6	1048	1052	203	1191	26 bar	343.10	USC10E70BP
1200	8.19	15.3	6	1255	1260	235	1412.5	29 bar	507.60	USC12N80BP
1400	8.17	17.1	9	1462	1467.9	245	1592.1	28 bar	678.90	USC14N80BP
1500	8.16	18	9	1565	1571.1	265	1709.8	27 bar	764.70	USC15N80BP
1600	8.16	18.9	9	1668	1674.2	265	1815.9	27 bar	851.30	USC16N80BP

Legend:

- DN: nominal diameter
- Lu: laying length, in m
- e: nominal thickness according to EN598 + A1-08/2009, in mm
- er: thickness of cement mortar
- ØDE: external nominal diameter of the barrel according to EN598 + A1-08/2009, in mm

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SAINT-GOBAIN

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- ØDI: internal nominal diameter of the socket, in mm
- P: nominal depth of the socket, in mm
- ØB: nominal diameter of the socket, in mm
- Mass: total mass per metre (including cement coating and socket), determined with the nominal thickness, in kg/m
- PFA: according to EN598 + A1-08/2009, in bar
- Reference: commercial reference Saint-Gobain PAM

Main characteristics:

- Internal lining: cement mortar M200 (please contact us for thickness higher than “er”)
- Joint gasket material: Nitrile rubber
- External coating ^{Bio}Zinalium: a layer of zinc-aluminium alloy enriched with copper Zn85Al15 (Cu), with surface density of 400 g/m² covered with a protective red (RAL 3011) layer AQUACOAT 80 µm (mini average), without VOC and without BPA.

Field of use:

	ABRASION	FLUID	LININGS			FLOW RING
			GRADE 100	GRADE 200	GRADE 300	
WATERS	NO ABRASION	• Drinking water • Raw waters • Salted waters, brines • Soft water after desalination	M100 M110 M150 M160			NO
	LOW & MEDIUM ABRASION	• Recycled waters • Waste waters, sewage • Waste slurries • Ore concentrates		M200 M210		YES
SLURRIES	HIGH ABRASION	• Waste slurries • Ore concentrates			M350*	YES

*in progress

Lining M200 vs fluids:

- Sea waters, recycled waters, waste waters and brines
- Slurries of waste materials to disposal
- Effluents/slurries of pH4 to 12

Note: the MINERAL range coatings of SGPAM are suitable for the abrasiveness and salinity of the water and slurries generally found in mines. They are classified by 3 performance grades and their marking begins with the letter M, as shown in the table below. Please, contact us for more details.

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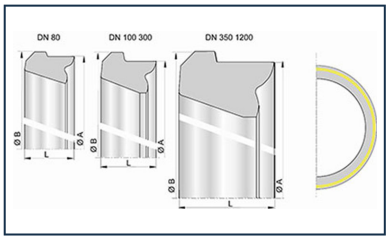
Zinc based coatings vs soils, according to EN598:

- Basic coating with pure zinc: the ductile cast iron pipes coated with a pure zinc metal layer (minimum 200 g/m²) and a layer of bituminous varnish can be buried in contact with many different types of soil, which may be identified by in-situ soil surveys except for **:
  - soil with low resistivity, under 1500 Ω.cm above the water table or under 2500 Ω.cm below it
  - mixed soil, i.e. comprising two or more types of soil
  - soil with a pH of less than 6 and a large reserve of acidity
  - soil containing waste, ash or slag, or soil contaminated by certain types of indistrial waste or effluents
- Coating with zinc and aluminium alloy

- The ductile cast iron pipes with a minimum zinc and aluminium alloy coating of 400 g/m² with a top coat can be buried in contact with most soils, except for **:
  - peaty and acid soil
  - soil containing waste, ash or slag, or soil contaminated by certain types of indistrial waste or effluents
  - soil situated below the marine water table with a resistivity less than 500 Ω.cm

(**) in these types of soil identified by in-situ surveys, and in the event of stay currents, we recommended additional protection (such as polyethylene sleeving) or other types of suitable external coatings (see EN545, D.1, D.2.2 and D.2.3).

Linked products



Nitrile STD Gasket
DN80-2000

NBR or EPDM Flow Ring for MINERAL pipes with STANDARD socket
DN150-1200

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