

Teknikum GRANIT®



APPLICATIONS

Teknikum GRANIT® is a product family for robust and flexible material handling hoses with corrugated cover for handling very abrasive substances. The hoses are designed for hydraulic suction and delivery transportation of abrasive materials and suitable for heavy circumstances where the hose must resist wear, movements and damp vibrations.

Customized Teknikum GRANIT® hoses can be manufactured according to ISO 28017:2011 (rubber hoses and hose assemblies, wire or textile reinforced, for dredging applications) type 2. In addition, Teknikum GRANIT® hoses can be made of EPDM or NBR rubber materials.

Teknikum GRANIT® *ANTISTATIC* hose version comes with a black SBR tube providing electrical conductivity and increased safety against ESD.

ADVANTAGES

- Safe and durable material handling hose
- Excellent resistance to abrasion and weather
- Eliminates vibrations and noise
- High burst pressure ≥ 32 bar
- Very flexible and low bending radius due to corrugated cover structure
- EPDM and NBR materials available
- Quick and easy installation

- Hoses can be cut on-site

TECHNICAL PROPERTIES

Previous versions

GRANIT® 4180 / 4280 BC Antistatic (same reference and structure)

Structure

- Tube: grey NR50 ShA
 - smooth
 - wear resistant
- Tube/ Antistatic version: black SBR 60 ShA
 - smooth
 - wear resistant
- Reinforcement: textile and steel spiral
- Cover: black SBR
 - wear resistant
 - antistatic
 - weather resistant
 - corrugated surface
- Safety factor: 3,2
(Burst pressure = 3,2 x working pressure)

Temperature range

- 40°C... +80°C.

Electrical properties

Teknikum GRANIT®:

- Conductive cover $R \leq 10^6 \Omega / \text{length}$

Teknikum GRANIT® *ANTISTATIC* version:

- Conductive tube and cover $R \leq 10^6 \Omega / \text{length}$
- Conductive through the hose wall $R \leq 10^9 \Omega$

SUITABLE COUPLINGS AND FLANGES

We recommend Teknikum GRANIT® Select couplings and Select gaskets. Available also

with Teknikum PLUS™ flange system for high pressure applications.

MANUFACTURER

Teknikum Oy (Business ID FI07645274),
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More information

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ORDER REFERENCE

Product code	Ø i.d. mm	Ø o.d. mm	Working press. MPa	Vacuum max. MPa	Bending radius mm	Weight kg/m	Length m
Teknikum GRANIT®							
4180025	25	53	1,0	0,09	120	2,20	40
4180032	32	60	1,0	0,09	150	2,60	40
4180040	40	73	1,0	0,09	150	3,80	40
4180050	50	83	1,0	0,08	200	3,80	40
4180065	65	98	1,0	0,08	200	4,70	40
4180080	80	113	1,0	0,08	200	5,70	40
4180102	102	133	1,0	0,08	250	7,90	20
4180127	127	164	1,0	0,08	350	10,40	20
4180152	152	189	1,0	0,08	500	12,00	20
4180203	203	246	1,0	0,08	1000	18,00	10
4180253	253	293	1,0	0,08	1700	20,60	10
4180300	300	352	1,0	0,08	1900	31,00	10
4180305	305	352	1,0	0,08	1900	31,00	10
4180350	350	407	1,0	0,08	2200	41,00	10
Teknikum GRANIT® ANTISTATIC							
4280BC050	50	83	1,0	0,08	200	3,80	40
4280BC080	80	113	1,0	0,08	200	6,70	40
4280BC102	102	133	1,0	0,08	250	7,90	20

Other dimensions available on request.

MARKINGS



REFERENCE IMAGES

With recommended coupling Teknikum GRANIT® Select

