



Marking: ceratel® 5910 ceramic-antistatic

Description

ceratel® 5910 is a robust high-performance material handling hose with black, corrugated cover, designed for the transport of extremely abrasive bulk materials. Ceramic platelets (Al_2O_3) are incorporated in the rubber lining of the hose with the result that abrasion resistance of the inner lining of ceratel® 5910 is considerably increased compared to conventional material handling hoses made of rubber or rubbercoated metal pipes.

The hose construction guarantees excellent flexibility which makes ceratel® 5910 a multi-purpose and cost efficient solution in process technology. The hose is easy to assemble and not only mechanical demands, such as vibrations, tensions and abrasion, but also chemical and thermal strains can be handled easily.

The high-performance material handling hose ceratel® 5910 is the combination of the reliable materials rubber and ceramic. The recommended coupling solution is our system GRANIT Select (see separate data-sheet).

Construction

(pneumatic and hydraulic conveying)

Inliner

ceramic platelets (Al_2O_3), incorporated in black, antistatic rubber

Reinforcement

textile inserts and steel spiral
(minimum burst pressure = 3,2 x operating pressure)

Cover

EPDM, black, antistatic, resistant to abrasion, ozone and UV

Temperature range

-40°C up to +120°C

Application

process and plant engineering, conveyor technology.

Media

Especially abrasive bulk materials such as ground glass, quartz sand, sand, metallic blasting abrasives, milled goods, powders and dusts. Also for primary fuels such as coal and coke.

Resistance

Ceramic platelets (Al_2O_3) are positioned in the rubber core of the hose in such a manner that they considerably increase the abrasion resistance of the core of the ceratel® 5910 as compared with commercial rubber feeder hoses or rubber lined metal pipes.

Special features

A signal cable is incorporated in the wall of the hose and is led outwards on both ends of the hose. With proper connection, the cable serves the purpose of signaling a critical degree of wear on the inner layer of the hose.

Please contact our Application Technology Department in the event of extreme loading capacities.

Feeder hose for highly abrasive bulk materials with wear monitoring



Data table

Inner-Ø [mm]	Outer-Ø [mm]	Bending radius [min. mm]	Vacuum [bar]	Operating pressure [bar]	Weight [kg/m]	Length [m]
25	53	130	- 0,9	10	2,9	10
32	60	140	- 0,9	10	3,5	10
40	73	150	- 0,9	10	4,4	20
50	83	200	- 0,9	10	5,2	20
65	98	300	- 0,9	10	7,0	20
80	113	400	- 0,9	10	8,0	20
102	133	500	- 0,9	10	9,5	10
127	164	600	- 0,9	10	10,4	10
152	189	800	- 0,9	10	12,5	10
203	246	1800	- 0,9	10	22,3	10
253	293	2500	- 0,9	10	23,6	10
305	352	3000	- 0,9	10	31,0	10