

SAND AND GRAVEL SUCTION AND DISCHARGE HOSE

SPECIFICATION FOR

IS: 13071 - 1991

SAND & GRAVEL RUBBER HOSE

SCOPE

KANTAFLEX Sand & Gravel Suction & Discharge hose is intended for suction & discharge service of abrasion particles like sand, mining particles, mud slurry, and waste water with slurries at maximum of 1.6Mpa (16kg/cm²) is 225 psi pressure & 100 degree C temperature.



Inner tube

The smooth inner tube is made out of synthetic rubber compound, resistant to abrasion & weather.

Reinforcement

Synthetic textile woven fabric plies with two or three G.I wire helices embedded in layers of plies.

Outer cover

A rubber cover made out of synthetic rubber compound, resistant to weather and ageing, coated over the reinforcement plies, compressed by woven textile fabric. The cover will be either smooth or corrugated finish as per choice of the buyer.

NOMINAL BORE (I.D.)		TOLERANCE ON I.D.		THICKNESS (MINM)		BEND RADIUS IN METER	
				LINING	COVER		
INCH	M.M	M.M		M.M	M.M	TYPE 1	TYPE 2
03.00	075	+/-	3.0	6.5	2.5	1.00	1.00
04.00	100	+/-	3.0	6.5	2.5	1.00	1.00
06.00	150	+/-	3.0	6.5	2.5	1.40	1.60
08.00	200	+/-	3.0	6.5	2.5	1.85	2.15
10.00	250	+/-	3.0	6.5	2.5	2.30	2.70
12.00	300	+/-	3.0	6.5	2.5	2.75	3.30

PHYSICAL PARAMETERS

TENSILE STRENGTH (MINM)

ELONGATION (MINM)

	Before Ageing	After Ageing	Before Ageing	After Ageing
Inner tube/ Lining	10.00 Mpa	+/- 25%	400%	+ 10% to - 30%
Outer cover	10.00 Mpa	+/- 25%	400%	+ 10% to - 30%

ADHESION STRENGTH BETWEEN HOSE COMPONENTS

Not less than 2 kPa (4.5kgf)

VACUUM RESISTANCE

83 kPa (500 mm of Mercury)

PRESSURE RATINGS: -

Recommended operating pressure	1.0 & 1.6 Mpa, depends on type of the hose
Hydro test pressure	1.5 times of the operating pressure
Minimum Bursting Pressure	3.0 times of the operating pressure

Hose is guaranteed for the period of 12months from the date of manufacturing or 9months from the date of commissioning whichever is earlier, against manufacturing defects for operational requirement only. Warrantee also limits to replacement only, for the defective quantity after our evaluation. Due to our continuous research the given data can be modified without any prior notice for development.