

ELECTRICALLY BONDED ROAD AND RAIL TANKER HOSE

SPECIFICATION FOR TANKER/ WAGON
LOADING & UNLOADING HOSE

IS: 10733 - 1983

SCOPE		KANTA SYSTEM of Electrically bonded Road & Rail tanker hose is intended for loading and off-loading of Road & Rail tanker vehicles carrying petroleum and blended products having low aromatic hydrocarbon contents.	
MATERIAL AND HOSE CONSTRUCTION		Inner tube	The smooth rubber lining is made out of synthetic rubber compound (NBR/Buna N), resistant to petroleum based products and Non-toxic edible oils.
TYPE 1B & 2B	TYPE 1A & 2A	Reinforcement	Synthetic textile woven fabric plies with G.I. wire helices embedded in layers of plies.
SMOOTH BORE	ROUGH BORE		
Rubber Lining	Wire Helix	Outer cover	A rubber cover made out of synthetic rubber compound (CR), 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.
Reinforcement	Reinforcement		
Wire Helix	Rubber Lining		
Filler compound	Reinforcement		
Reinforcement	Outer Cover		
Outer Cover	Wire armoured		

DIMENSION &	NOMINAL BORE (I.D.)		TOLERANCE ON I.D.		THICKNESS (MINM)		BEND RADIUS IN MM	
	INCH	M.M	M.M		LINING	COVER	TYPE 1	TYPE 2
PRESSURE RATING: Type: 1A & 1B = 0.35 Mpa Type: 2A & 2B = 0.70 Mpa ***** HOSE CAN BE MADE WITH BUILT-IN (INTEGRAL) VULCANIZED END FLANGES *****	1.00	25.0	+/-	1.25	2.00	1.25	100	160
	1.25	31.5	+/-	1.50	2.00	1.25	130	190
	1.50	38.0	+/-	1.50	2.00	1.25	155	230
	2.00	50.0	+/-	1.50	2.00	1.25	205	305
	2.50	63.0	+/-	1.50	2.00	1.25	255	380
	3.00	75.0	+/-	2.50	2.00	1.25	305	460
	4.00	100	+/-	3.00	2.00	1.25	410	560

PHYSICAL PARAMETERS	TENSILE STRENGTH (MINM)			ELONGATION (MINM)			
	Before Ageing	After Ageing		Before Ageing	After Ageing		
Inner tube/ Lining	7.00 Mpa	+/-	25%	250%	+	10% to 45%	
Outer cover	7.00 Mpa	+/-	25%	300%	+	10% to 45%	

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	3.5 & 7 KSC, depends on type of the hose
Hydro test pressure	1.5 times of the operating pressure
Minimum Bursting Pressure	4.0 times of the operating pressure

Hose is guaranteed for the period of 12 months from the date of manufacturing or 9 months 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.