



SANDHYA ENTERPRISES

AN ISO 9001:2015 Certified Company

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Ceramic Rubber Hose

Good quality high wear resistat ceramic lined rubber hose, in th newly developed ceramic hose, ceramic tiles are used to eliminate a disadvantage in conventional ceramic hoses, it has higher abrasion resistance while maintaining flexibility. Ceramic hose has the circular disk shaped ceramic tip as compared with the conventional ball shaped ceramic tip and shows several times abrasion resistance.

1. Application Fields: Our products are widely used in steel plants, cement plants, power plants, coal mine, glassworks, etc.
2. Advantage: We have applied for a patent for our ceramic products. Also, they have been exported to many countries and areas.

Feature & Quality:

- *.Wear-resistant: Ceramic lining hose is 12 times more wear-resistant than stainless stell hose.
- *.Impact resistant: virtually impossible to destroy the ceramic segments.
- *.Flexible Minimum bend radius is roughly 12 times of the hose I.D.
- *.Corrosion -resistant: Compatible with most chemicals found in slurries.
- *.Widely of end- connection: suitable variety fittings and Flange.
- *.Long Length: Purchase and continuous length up to 65Ft.
- * Widely hose diameter: 28 to 300mm in hose diameter.

Lined ceramic chips are made with cold pressing method.

Lining: EPDM rubber hose with lined ceramic (92% alumina) inside

Reinforcement: For large size ceramic hose, a steel wire is usually embedded in helix structure on polyester fabric to reinforce the strength.

Cover: black NR/EPDM rubber

High resistance to abrasion,heat and corrosion

Longer service life

Having four end connection:plug-in connector,reinforced plug-in connector, flange connection and bayonet connection

The Flexible Hose with Ceramic Tiles.

SANDHYAFLEX are used to use the flexible hose with ceramic balls to reduce the internal costs.Our R&D experts were developed the ceramic tile has roughly five times longer useful life than flexible hose with ceramic balls.

HOW TO SELECTION CERAMIC HOSE

The right selection means choosing a product suitable for technical requirements of certain application or device along with assurance of safe and faultless performance Due to above mentioned reasons. We advise you contact us and help to choose the right ceramic hose. The essential information for the right ceramic hose selection as follows:

- *. **Medium: Substance conveyed.**
- * **Internal diameter:25-300mm.**
- *. **Pressure: maximal working pressure.**
- *. **Temperature: Both inside and outside temperature.**
- * **Hose Ending: Type of fitting thread size , Type of Sealing.**
- * **Way of assembling the hose fittings. Clip. Band . clamp.**
- * **Length of the hose: Assembly the complete length along with fitting.**

Technical Parameter:

Working pressure	10-30 bar
Rockwell hardness	90
Working temperature	-20°C~120°C

Curve degree	flexibility
Inner diameter	30mm-300mm, custom-made
Max length	15 m
Material	RUBBER
Color	Black

Abrasive materials (coal powder, slurry, cinder etc.) conveyance in industries e.g. mining industry, dredging, steel industry, cement industry, power plant etc. requires flexible conveyance mediums at complex regions. Traditionally Rubber hoses are used for flexible requirements but are to be frequently replaced due to wear. The replacement frequency of the hose not only increases maintenance cost but also affects & delays production.

Our SANDHYAFLEX ceramic lined flexible rubber hoses are ideal for these situations offering extreme resistance to wear, vibrations, impact & thermal expansions. This hose can be easily connected to existing piping systems by means of flanges as end connection offering excellent flexibility support.

Features

Shape

Cylindrical

Size

As per customer requirement

Colour

Black (Rubber) & White (Ceramic)

Weight

Lighter than steel

Properties

Impact & abrasion resistance, Anti-corrosive

Applications

- Dredging

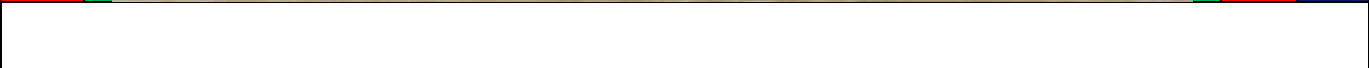
- Mining
- Cement
- Steel
- Power plants

Application Areas

Ceramic hoses are widely used in steel mills. Cement plants, Powder plants. Waste Disposal Plants, Coal mines, Mining , Glass products. Sandblasting.











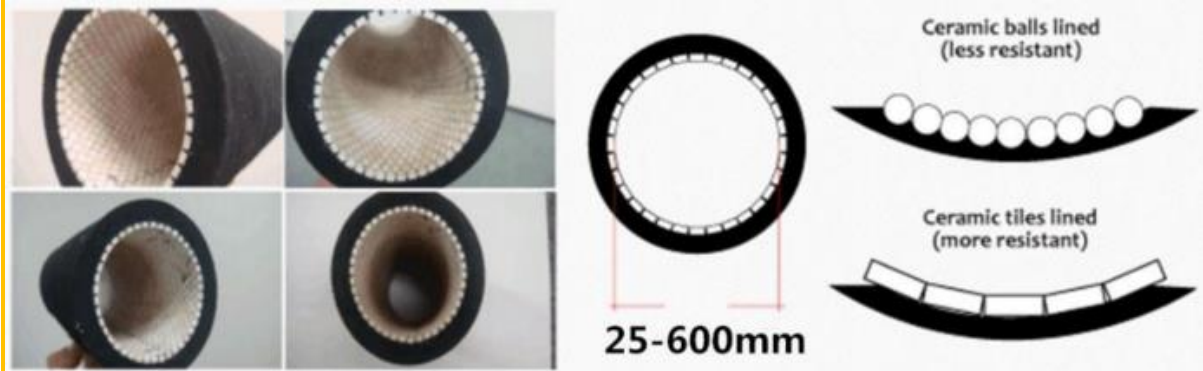




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1. Lining

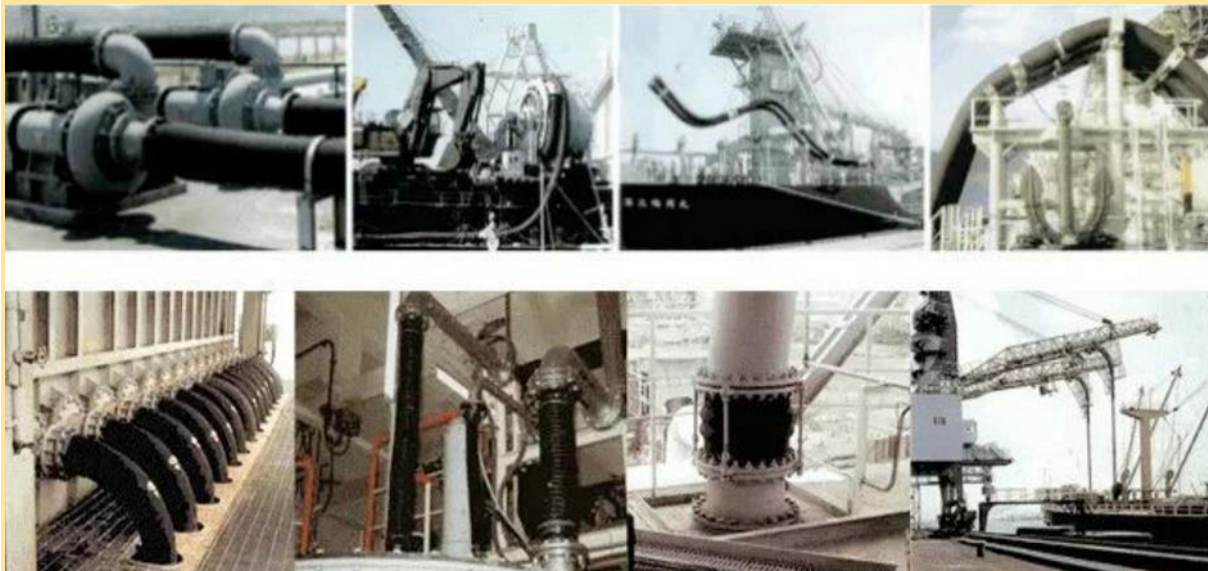
Built-in ceramic lining (92% alumina) EPDM rubber hose, high wear resistance, more efficient.



in the newly developed ceramic hoses, the ceramic tip is used to eliminate the drawbacks of conventional ceramic hoses. It has a higher wear resistance, while maintaining flexibility

Application areas:

Ceramic hoses are widely used in steel mills, cement plants, power plants, waste disposal plants, coal mines, mining, glass products, sandblasting, concrete pump, dredging, desliming and other fields.



Ceramic lined flexible rubber hoses

ceramic-lined flexible hoses are ideal for use in highly aggressive services where conventional rubber hose, expansion joints, or bellows connections require frequent replacement. QMX hoses may also be used to isolate mechanical vibration or to connect non-stationary equipment.

Dry abrasion line of powder delivery

(Sand, grit, powdered coal, grain, cement and other fine powder)
For both delivery and suction

Features

Abrasion Resistance

Composite of aluminum ceramics and rubber with high elasticity and strength for inner material.

Excellent abrasion resistance against dry abrasion.

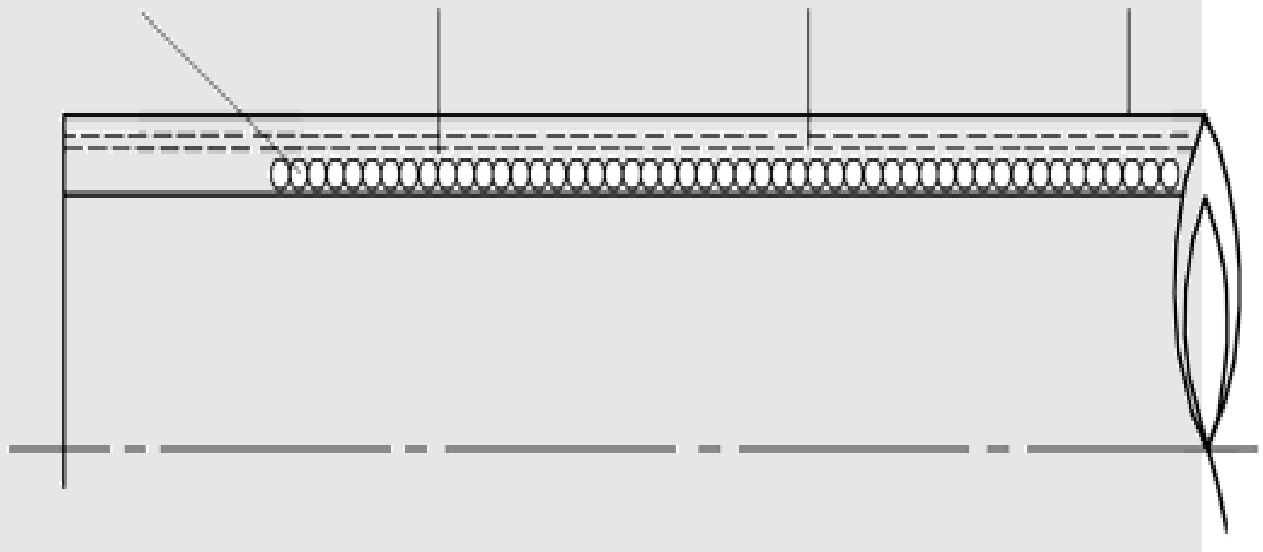
Inner Rubber Layer

Inner rubber is complied by composite of ceramic balls (diameter $\varnothing 3$ to $\varnothing 10$) or Hex ceramic tiles and binder rubber with strong adhesion.

Ceramic lining is 12 times more wear-resistant than stainless steel

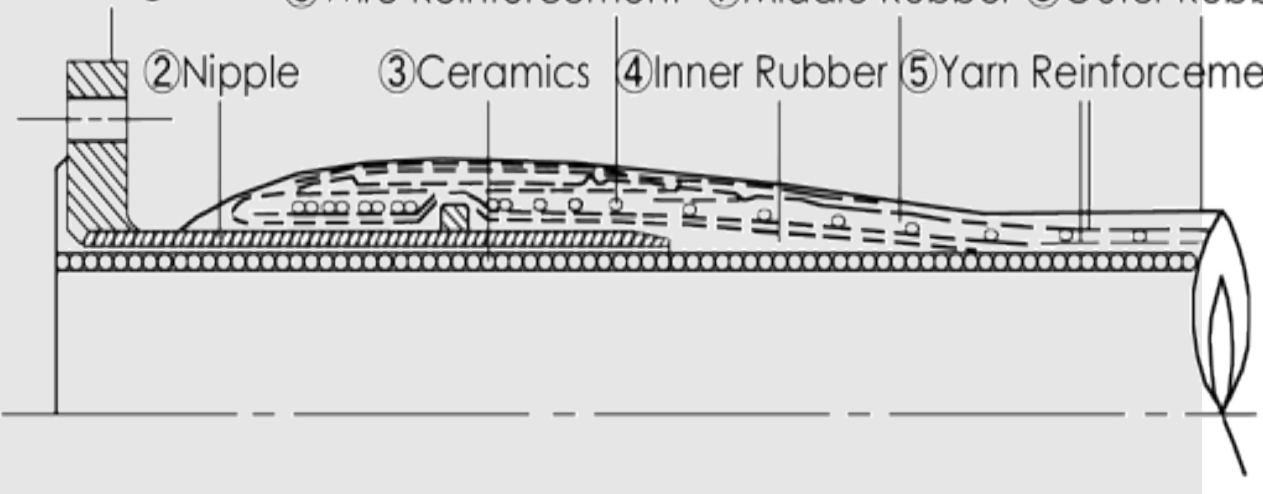
1. Impact resistant - virtually impossible to destroy the ceramic segments
2. Flexible - minimum bend radius is roughly 12 times the hose I.D.
3. Corrosion-resistant - compatible with most chemicals found in slurries
4. Wide variety of end-connections
5. Purchase any continuous length up to 65 feet Straight Type (No Fittings)

- ① Ceramics ② Inner Rubber ③ Yarn Reinforcement ④ Outer Rubber



Build-in Nipple Type

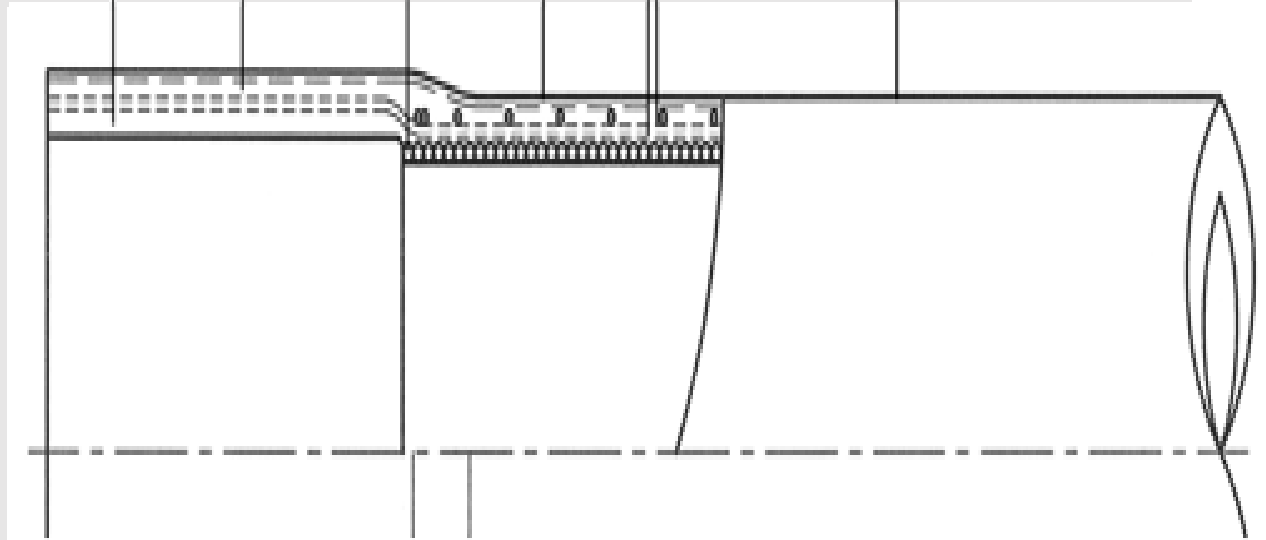
- ① Flange ② Nipple ③ Ceramics ④ Inner Rubber ⑤ Yarn Reinforcement ⑥ Wire Reinforcement ⑦ Middle Rubber ⑧ Outer Rubber



Enlarged End Type

④ Middle Rubber ⑤ Wire Reinforcement ⑥ Outer Rubber

① Inner Rubber ② Ceramics ③ Yarn Reinforcement



MOC

150mmID x 215mm OD x2040mm (LG) Both End MS Flange Rotating

150.00	Sl.No.	Description	Thickness
170.00	1	Ceramic 10.0mm	10.00
190.00	2	Lining Double Rubber 5.0mm	10.00
193.00	3	3 ply 240Z(27"+ 27"+ 27")	0.50
197.40	4	Middle Rubber 2.20mm	2.20
	5	MS Helical Water10 SWG	3.20
202.40	6	Middle Rubber 2.20mm	2.50
204.40	7	2 ply 240Z (28"+ 28")	0.50
208.80	8	Middle Rubber 2.2mm	2.20
210.80	11	2 ply 240Z (29"+29")	0.50
215.20	12	Cover 2.2mm	2.20
	13	Rotating MS Flange 1 Set	
	14	Slution CGS-18	
	15	3" Nylon tape	

Wall Thickness 32.60
Weight 33.096kgs

280mmID x 360mm OD x2.2Mtr (LG) Both End MS Flange (Rotating)

280.00	Sl.No.	Description	Thickness	Qty
306.00	1	1 Ply One Side Ceramic Cloth 13.0mm Thick	13.00	0.000
326.00	2	Lining Double LAS 721 (4x2=8mm)	10.00	27.410
330.00	3	4 ply 240Z(45"+45"+45"+45")	0.50	10.516
335.00	4	Middle Rubber 3.0mm	2.50	8.615
	5	MS Helical Water 8SWG	4.00	4.500
341.00	6	Middle Rubber 3.0mm	3.00	8.770
344.00	7	3 ply 240Z (47"+47"+47")	0.50	8.240
350.00	8	Middle Rubber 3.0mm	3.00	9.133
	9	MS Helical Water 10 SWG	3.20	3.500
356.00	10	Middle Rubber 3.0mm	3.00	9.130
359.00	11	3 ply 240Z (49"+19"+49")	0.50	8.588
362.00	12	Cover	3.00	9.290
	13	Rotating MS Flange 1 Set		
	14	Solution CGS-18		3.800
	15	3" Nylon tape		0.180

MOC :50mm ID x 85mmODx10.Mtr -04Nos

Ceramic Rubber Hose

50mmID x 85mm OD x10.0Mtr (LG)						
50.00	Sl.No.	Description	Thickness	Qty		
60.00	1	1 Ply One Side Ceramic Tiles 5.0mm Thick	5.00	0.000		
70.00	2	Lining 5mm	5.00	12.770		
72.00	3	2 ply 240Z (10"+10")	0.50	5.080		
76.00	4	Middle Rubber2.0mm	2.00	5.815		
	5	MS Helical Water 12 SWG	2.60	14.000		
80.00	6	Middle Rubber 2.0mm	2.00	6.130		
82.00	7	2 ply 240Z 11"+11"}	0.50	5.600		
86.00	8	Cover 2.0mm	2.00	6.600		
	13	Ratating MS Flange 1 Set				
	14	Slution CGS-18		2.800		
	15	3" Nylon tape		0.250		

Wall Thickness 35mm

Weight 47.509kgs

50mmID x 85mm OD x10.0Mtr (LG)						
50.00	Sl.No.	Description	Thickness	Qty		
60.00	1	1 Ply One Side Ceramic Tiles 5.0mm Thick	5.00	0.000		
70.00	2	Lining 5mm	5.00	12.770		
72.00	3	2 ply 240Z (10"+10")	0.50	5.080		
76.00	4	Middle Rubber2.0mm	2.00	5.815		
	5	MS Helical Water 12 SWG	2.60	14.000		
80.00	6	Middle Rubber 2.0mm	2.00	6.130		
82.00	7	2 ply 240Z 11"+11"}	0.50	5.600		
86.00	8	Cover 2.0mm	2.00	6.600		
	13	Ratating MS Flange 1 Set				
	14	Slution CGS-18		2.800		
	15	3" Nylon tape		0.250		

Wall Thickness 35mm

Weight 48.509kgs

62mmID x 108mm OD x 710mm (LG) Both End MS Flange

62.00	Sl.No.	Description	Thickness	Qty		
72.00	1	Ceramic 5.0mm	5.00	0.000		
92.00	2	Lining 5mmx 2 Layer	10.00	2.300		
94.00	3	2 ply 240Z (13"+13")	0.50	0.470		
98.00	4	Middle Rubber 2.0mm	2.00	0.536		
	5	MS Helical Water 12 SWG	2.60	0.600		
102.00	6	Middle Rubber 2.0mm	2.00	0.560		
104.00	7	2 ply 240Z 14"+14"}	0.50	0.505		
108.00	8	Cover 2.0mm	2.00	0.800		
	13	MS Flange 1 Set				
	14	Slution CGS-18		2.000		
	15	3" Nylon tape		0.180		

Wall Thickness 36mm
 Weight 6.0kg

62mmID x 108mm OD x 915mm (LG) Both End MS Flange

62.00	Sl.No.	Description	Thickness	Qty		
72.00	1	Ceramic 5.0mm	5.00	0.000		
92.00	2	Lining 5mmx 2 Layer	10.00	2.950		
94.00	3	2 ply 240Z (13"+13")	0.50	0.605		
98.00	4	Middle Rubber 2.0mm	2.00	0.690		
	5	MS Helical Water 12 SWG	2.60	0.700		
102.00	6	Middle Rubber 2.0mm	2.00	0.720		
104.00	7	2 ply 240Z 14"+14"}	0.50	0.650		
108.00	8	Cover 2.0mm	2.00	0.765		
	13	MS Flange 1 Set				
	14	Slution CGS-18		2.000		
	15	3" Nylon tape		0.180		

Wall Thickness 36mm

Weight 6.5kg

62mmID x 108mm OD x 1000mm (LG) Both End MS Flange

62.00	Sl.No.	Description	Thickness	Qty		
72.00	1	Ceramic 5.0mm	5.00	0.000		
92.00	2	Lining 5mmx 2 Layer	10.00	3.221		
94.00	3	2 ply 240Z (13"+13")	0.50	0.660		
98.00	4	Middle Rubber 2.0mm	2.00	0.755		
	5	MS Helical Water 12 SWG	2.60	0.800		
102.00	6	Middle Rubber 2.0mm	2.00	0.755		
104.00	7	2 ply 240Z 14"+14"}	0.50	0.715		
108.00	8	Cover 2.0mm	2.00	0.835		
	13	MS Flange 1 Set				
	14	Slution CGS-18		2.000		
	15	3" Nylon tape		0.180		

Wall Thickness 36mm

Weight 7.0kg

MOC of 4" ID x 1.0Mtr (LG)

101.60	Sl.No.	Description	Thickness
109.60	1	Lining	4.00
112.80	2	2 Ply 18 OZ	0.80
0.00	3	MS Wire 12 SWG	2.60
114.80	4	Middle	1.00
116.40	5	2 Ply 18 OZ	0.80
119.40	6	Cover	1.50

Wall Thickness 9.0 to 10.mm

MOC of 12" ID x1.0Mtr

300.00	Sl.No.	Description	Thickness
316.00	1	Lining	8.00
320.80	2	3 Ply 240Z	0.80
323.80	4	Middle	1.50
0.00	3	MS Wire 10 SWG	3.20
326.80	4	Middle	1.50
330.00	5	2 Ply 240Z	0.80
336.00	4	Middle	1.50
0.00	6	MS Wire 10 SWG	3.20
339.00	7	Middle	1.50
342.20	8	2 Ply 240Z	0.80
345.20	9	Cover	1.50

Wall Thickness 22 to 23mm

MOC 838mmID x 907mm OD x150mmr (LG) -05nos

828.00	Sl.No.	Description	Thickness	Qty	Rate	Amount
878.80	1	25.4mm Ceramic Tiles	25.40	0.000	0.00	0.00
883.80	2	Lining Rubber 2.5mm	2.50	5.000	138.00	690.00
907.80	3	10mm M S Casing Pipe	3.00	10.500	200.00	2100.00
	13	Die Cast 6.0		35.000	150.00	5250.00

weight-52.71kg approx.

**125mmID x 185mm OD x10.0 Mtr (LG) -02No Ceramic Rubber
Hose**

125.00	Sl.No.	Description	Thickness	Qty		
145.00	1	Ceramic 10.0mm	10.00	0.000		
161.00	2	Lining Double Rubber 4.0mm	8.00	48.085		
164.00	3	3 ply 240Z(27"+ 22"+ 22")	0.50	11.176		
168.00	4	Middle Rubber 2.20mm	2.00	13.042		
	5	MS Helical Water10 SWG	3.20	27.000		
172.00	6	Middle Rubber 220mm	2.00	13.357		
174.00	7	2 ply 240Z (23"+ 23")	0.50	11.685		
178.00	8	Middle Rubber 2.2mm	2.00	13.830		
180.00	11	2 ply 240Z (25"+25")	0.50	12.700		
184.00	12	Cover 2.2mm	2.00	14.300		
	13					
	14	Slution CGS-18		3.000		
	15	3" Nylon tape		0.180		

Manufacturing Cast
 Wall Thickness 29.50
 Weight 104.0kgs

**125mmID x 185mm OD x10.0 Mtr (LG) -02No Ceramic Rubber
Hose**

125.00	Sl.No.	Description	Thickness	Qty		
145.00	1	Ceramic 10.0mm	10.00	0.000		
161.00	2	Lining Double Rubber 4.0mm	8.00	48.085		
164.00	3	3 ply 240Z(27"+ 22"+ 22")	0.50	11.176		
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	5	MS Helical Water10 SWG	3.20	27.000		
172.00	6	Middle Rubber 2.0mm	2.00	13.357		
174.00	7	2 ply 240Z (23"+ 23")	0.50	11.685		
178.00	8	Middle Rubber 2.0mm	2.00	13.830		
180.00	11	2 ply 240Z (25"+25")	0.50	12.700		
184.00	12	Cover 2.0mm	2.00	14.300		
	13					
	14	Slution CGS-18		3.000		
	15	3" Nylon tape		0.180		

Wall Thickness 29.50
Weight 140.0kgs

38mmID x 54mm OD x1.0Mtr (LG) -01Nos

38.00	Sl.No.	Description	Thickness	Qty		
44.00	1	1 Ply One Side Ceramic Tiles 3.0mm Thick	3.00	0.000		
48.00	2	Lining 2mm	2.00	0.361		
51.00	3	3 ply 240Z (7"+7"+7")	0.50	0.533		
55.00	4	Cover 2.0mm	2.00	0.416		
	6	Slution CGS-18		0.050		
	7	3" Nylon tape		0.025		

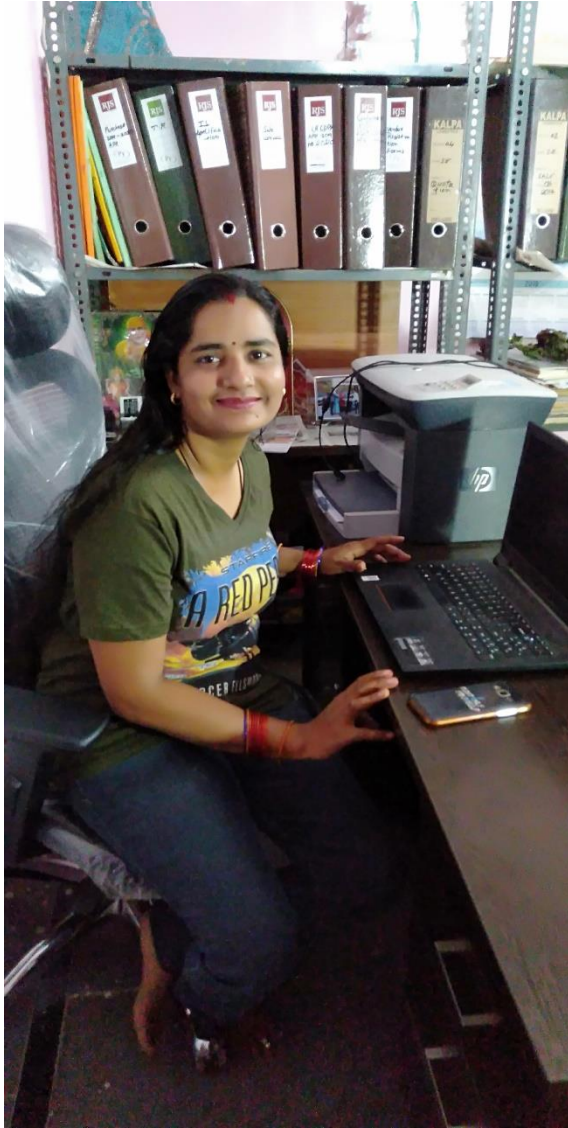
Wall Thickness 35mm
Weight 1.109kgs

MOC of 6" ID x 6.0Mtr (LG)-02Nos

150.00	Sl.No.	Description	Thickness
160.00	1	Lining	5.00
163.20	2	2 Ply 24 OZ	0.80
0.00	3	MS Wire 12 SWG	2.60
165.20	4	Middle	1.00
168.40	5	2 Ply 24OZ)	0.80
0.00	6	MS Wire 12 SWG	2.60
170.40	7	Middle	1.00
172.00	8	1 Ply 24 OZ	0.80
175.00	9	Cover	1.50

Wall Thickness 12.0mm to 13.0mm

TOP MNAGMENT



SANDHYA CHAUDHARY



MITHILESH CHAUDHARY

Good quality high wear resistant ceramic lined rubber hose, In the newly developed ceramic hose, ceramic tiles are used to eliminate a disadvantage in conventional ceramic hoses. It has higher abrasion resistance while maintaining flexibility. Ceramic hose has the circular disk shaped ceramic tip as compared with the conventional ball shaped ceramic tip and shows several times higher abrasion resistance.

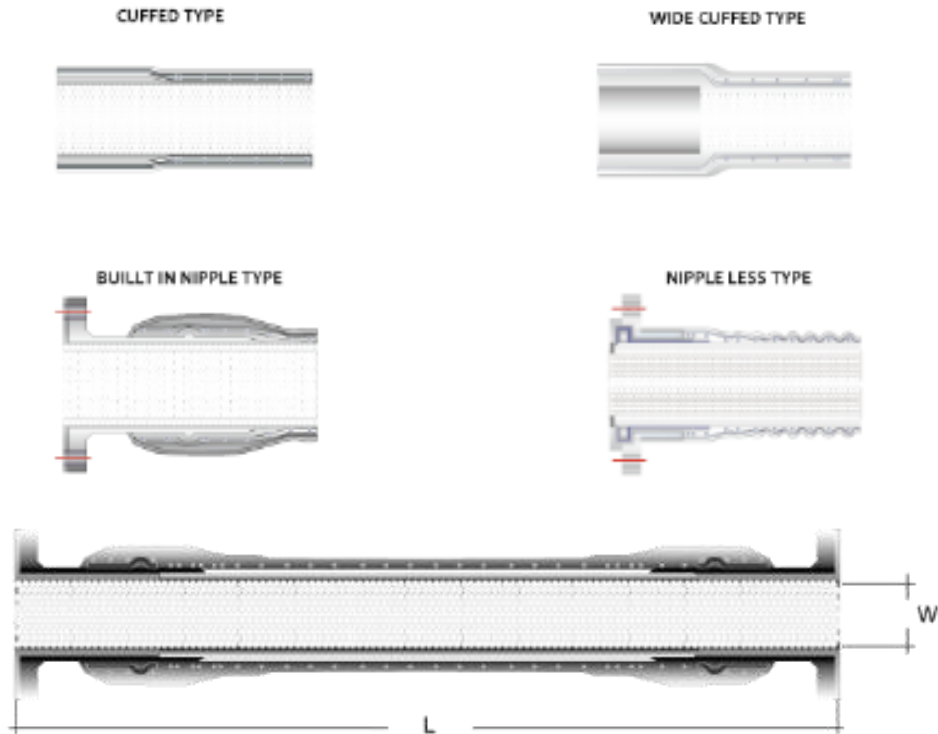
Feature & Quality:

- Wear-resistant: Ceramic lining hose is 12 times more wear-resistant than stainless steel hose.
- Impact resistant: Virtually impossible to destroy the ceramic segments.
- Flexible: Minimum bend radius is roughly 12 times of the hose I.D.
- Corrosion-resistant: Compatible with most chemicals found in slurries.
- Widely of end-connections: Suitable variety Fittings and Flange.
- Long Length: Purchase any continuous length up to 65 FT.
- Widely hose diameter: 28 to 300 mm in hose diameter.

The Flexible Hose with ceramic tiles:

SANDHYAFLEX are used to use the flexible hose with ceramic balls to reduce the internal costs. Our R&D experts were developed the ceramic tile has roughly five times longer useful life than flexible hose with ceramic balls.

End shapes of a ceramic hose:



Dimensional drawing of a ceramic hose for production:



Ceramic Hose Applications:

- It is used on dredgers of dredging project, like harbors, rivers and lakes.
- Steel industry, mining and mineral industry, cement and dredging industry.



Specifications:

Diameter pol		Duaneter intemal	Diameter external	Resistance to bending	Length	Pressure
1	25	25.4	42	300	10	10 kg/cm ³
1 1/4	32	31.8	50	380	10	10 kg/cm ³
1 1/2	38	38.1	56	480	10	10 kg/cm ³
2	50	50.8	72	600	20	10 kg/cm ³
2 1/2	65	63.5	94	780	20	10 kg/cm ³
3	75	76.2	105	900	20	10 kg/cm ³
3 1/2	90	88.9	120	1080	20	10 kg/cm ³
4	100	101.6	140	1200	20	10 kg/cm ³
5	125	127	160	1500	20	10 kg/cm ³
6	150	152.4	190	1800	20	10 kg/cm ³
8	200	200	235	2400	10	10 kg/cm ³
10	250	250	290	3000	10	10 kg/cm ³
12	300	300	350	3600	10	10 kg/cm ³

NOTE:

Length_15.0Mtr

Working Pressure:10.0kg/cm² to 25.0kg/cm²

How to selection ceramic hose:

The right selection means choosing a product suitable for technical requirements of certain application or device along with assurance of safe and faultless performance. Due to above mentioned reasons, we advise you contact us and help to choose the right ceramic hose.

The essential information for the right ceramic hose selection as follows:

- Medium: Substance conveyed
- Internal diameter: 25~300mm
- Pressure: Maximal working pressure
- Temperature: Both inside and outside temperature
- Hose endings: Type of fitting, thread size, type of sealing
- Way of assembling the hose fittings: Clip, band, clamp
- Length of the hose: Assembly the complete length along with fittings

