

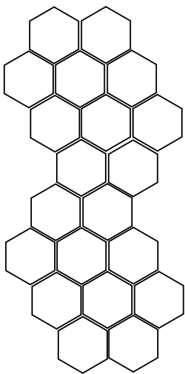
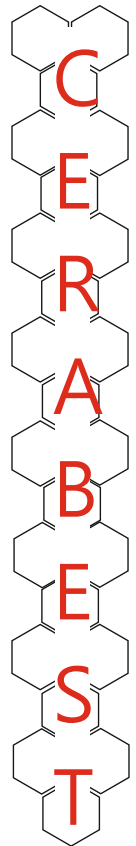


WEAR RESISTANCE PRODUCTS



**PHYSICAL AND CHEMICAL CHARACTERISTICS OF CERABEST**

Main component	Alumina oxide $AL_2O_3$	90%
Modulus of rapture at 20°C	(Kg/m <sup>2</sup> )	$31,6 \times 10^6$
Modulus of rapture at 1300°C	(Kg/m <sup>2</sup> )	$2,3 \times 10^6$
Tensile strength	(Kg/m <sup>2</sup> )	$17,6 \times 10^6$
Density	(Gr/cm <sup>2</sup> )	3,65
Hardness	(Mohs scale)	9
Hardness	(Rockwell 45N)	79
Pressure	(Kg/cm <sup>2</sup> )	21.000
Resistance to bending stress	(Kg/cm <sup>2</sup> )	2700
Elasticity		$2,7 \times 10^6$
Color		White
Porosity		0
Coefficient of expansion		
From 20° To 200°		$5,80 \times 10^6/°C$
From 200° To 500°		$6,47 \times 10^6/°C$
From 500° To 800°		$6,99 \times 10^6/°C$
From 800 To 1000°		$7,42 \times 10^6/°C$
From 1000° To 1200°		$7,84 \times 10^6/°C$



INTERNAL DIAMETER	EXTERNAL DIAMETER	WORKING PRESSURE			BURST PRESSURE			WEIGHT Kg/mt	MINIMUM BEND RADIUS
		Mpa	psi	bar	Mpa	psi	bar		
25	49	0,6	90	6	1,8	261,0	18	2,59	375
32	56	0,6	90	6	1,8	261,0	18	3,07	480
38	62	0,6	90	6	1,8	261,0	18	3,48	570
42	66	0,6	90	6	1,8	261,0	18	3,75	630
48	72	0,6	90	6	1,8	261,0	18	4,17	720
50	74	0,6	90	6	1,8	261,0	18	4,31	750
60	86	0,6	90	6	1,8	261,0	18	5,27	900
63,5	90	0,6	90	6	1,8	261,0	18	5,54	953
70	100	0,6	90	6	1,8	261,0	18	6,00	1050
75	105	0,6	90	6	1,8	261,0	18	6,35	1125
80	110	0,6	90	6	1,8	261,0	18	6,93	1200
100	132	0,6	90	6	1,8	261,0	18	8,56	1500
114	147	0,6	90	6	1,8	261,0	18	13,24	1710
125	158	0,6	90	6	1,8	261,0	18	14,42	1875
150	188	0,6	90	6	1,8	261,0	18	19,42	2250
200	240	0,6	90	6	1,8	261,0	18	27,68	3045

## STRUCTURE :

**SUBSTRATE :** SBR/NBR rubber pipes are lined with Hexagonal Ceramic Mosaic. The use of rubber enables the pipes to be highly flexible and since it is lighter than steel can be installed into difficult to reach areas much easier than it is to install the steel equivalent. Good resistance to some chemicals (please contact our technical support before specific applications). Ceramics segments are composed of alumina and oxide are produced with the most advanced technology, sintering spray-dried powders. The special manufacturing process allows to obtain a very compact structure (porosity 0) and extreme hardness (Mohs scale 9).

The special surface guarantees a perfect flow of the material, avoiding any problem related to packing and oxidation

**REINFORCEMENT:** Reinforced with a continuous steel spiral to ensure that the diameter of the pipe is maintained no matter how it's bent. Strips of copper also run down the length of the rubber pipes to prevent a build up of electrostatic.

**COVERING:** Black, antistatic (R=2.0 M/m), based blend of SBR/NBR, resistant to abrasion and atmospheric agents.

## USES :

Suitable for pneumatic conveying (suction and discharge) in industrial applications of dry cement, coal, and RDF (refuse derived fuel from the recovery, synergistic to coal dust), minerals, ceramic powder, glass fiber, and the load of tanks, and storage ware houses and silos.

**Applications in the following following industries : steel mills, coking plants, power plants and factories of ceramic, glass, insulation materials and cement etc...**

## WORKING TEMPERATURE :

-30°C (-22°F) TO +70°C (+158°F)

## STANDARD LENGTH :

Up to a maximum of 15 m

## PACKAGING:

Wrapped in polyethylene film

## TOLLERANCES :

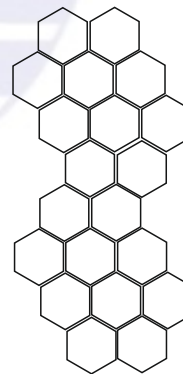
RMA steel mandrel

On internal diameter :

< = d.i. 38 mm : +/- 0,79 mm

> = d.i. 38 mm : +/- 1,59 mm

On length : +/- 1%



## N.B.

Available on request CERABEST HT : high temperature version resistant up to 530 °C (+986°F)

## NOTE:

Rivestimenti disponibili:

A- Calza acciaio zincato / acciaio inox

B- Calza fibra di vetro siliconata

C- Calza fibra di vetro

D- Calza in tessuto protettiva

## NOTE:

Available coverings:

A- Galvanized and stainless steel braids

B- Fiber glass braid + red silicone

C- Fiber glass braid

D- Textile protective braid



A



B



C



D



## TUBO ABRAPLUS S&D/10 TPU - ABR PULYURETAN



**Sottostrato:** Liscio in poliuretano termoplastico (TPU) 70 ShA con perdita di abrasione pari a 30 mm<sup>3</sup>.

**Rinforzo:** Inserti tessili ad alta tenacità, spirale metallica e cavetto di rame.

**Copertura:** Ondulata ad impressione tela in gomma nera antifiamma, resistente all'abrasione, all'ozono ed agli agenti atmosferici.

**Temperatura di esercizio:** -30° +80°


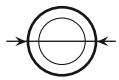




**Inner tube:** Smooth in thermoplastic polyurethane (TPU) 70 ShA with abrasion loss of 30 mm<sup>3</sup>.

**Reinforcement:** High toughness textile inserts, metallic helix wire and copper cable.

**Cover:** Corrugated (wrapped finish), in black rubber, flame, abrasion, ozone and weathering resistant.

**Temperature range:** -30° +80°

Diametro nominale Nominal Bore	Diametro interno Inside diameter		Diametro esterno Over cover diameter	Pressione di esercizio Working pressure		Pressione di scoppio Burst pressure	
	mm	inch		bar	psi	bar	psi
							
	<b>DN</b>						
<b>mm</b>	<b>mm</b>	<b>inch</b>	<b>mm</b>	<b>bar</b>	<b>psi</b>	<b>bar</b>	<b>psi</b>
38	38	1 1/2	65	10	142	30	426
40	40	1 1/2	70	10	142	30	426
50	50	2	80	10	142	30	426
60	60	2 1/2	92	10	142	30	426
76	76	3	104	10	142	30	426
102	102	4	136	10	142	30	426



### APPLICAZIONE:

Tubo per passaggio prodotti altamente abrasivi.  
Nota: disponibile in versione liscia e ondulata.



### APPLICATION:

Hose for crossing of high abrasive products.  
Note: available in smooth or corrugated.



### NOTE:

Rivestimenti disponibili:  
A- Calza acciaio zincato / acciaio inox  
B- Calza fibra di vetro siliconata  
C- Calza fibra di vetro  
D- Calza in tessuto protettiva

### NOTE:

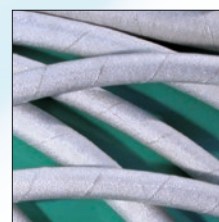
Available coverings:  
A- Galvanized and stainless steel braids  
B- Fiber glass braid + red silicone  
C- Fiber glass braid  
D- Textile protective braid



A



B



C

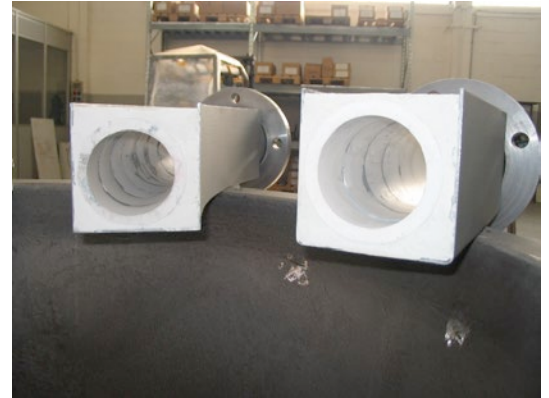


D

# CERAMICS ELBOWS – CURVE RIGIDE IN CERAMICA

Per trasporto pneumatico in mandata e aspirazione in applicazioni industriali di cemento secco, carbone, CDR, minerali, polvere di ceramica, vetro da recupero e per il carico di cisterne e immagazzinamento di depositi e silos.

*Suitable for pneumatic conveying (suction and discharge) in industrial applications of dry cement, coal, RDF, minerals, ceramic powder, glass recovery, glass fiber, and storage warehouse and silos.*

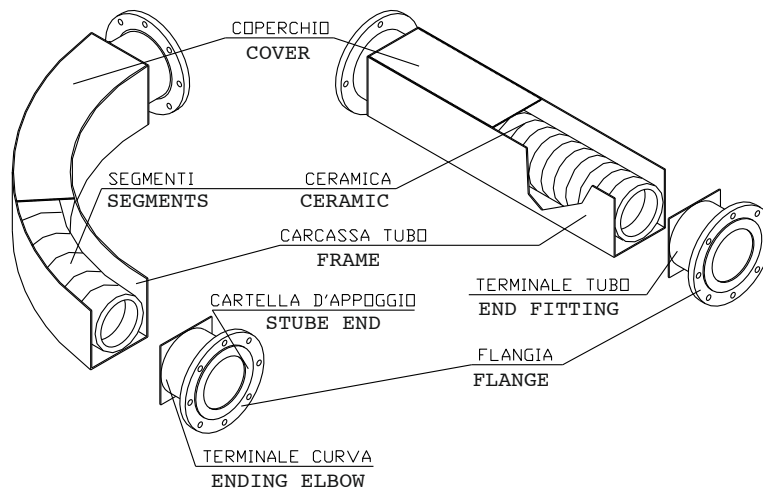


## Caratteristiche tecniche

<b>Sottostrato</b>	Segmenti in CERAMICA AL <sub>2</sub> O <sub>3</sub> Ossido di Allumina al 92%, ancorati tra loro.. I segmenti sono prodotti mediante pressatura idraulica e successiva sinterizzazione con risultato di porosità zero.
<b>Rinforzi</b>	Cemento bianco con funzione di riempimento e stabilizzazione dei segmenti in Ceramica
<b>Carpenteria</b>	Carcassa in Fe360 spessore 3/4mm per contenimento segmenti. Alle estremità flange mobili per l'attacco alla strutture già esistenti
<b>Caratteristiche</b>	Raggio di curvatura standard disponibili dal pronto 1000/1500mm Diametri interni 50mm – 200mm Spessore 8mm – 25mm
<b>Temperatura</b>	Massimo 180°C (356°F) Picco massimo PER POCHI MINUTI 250°C

## Technical Characteristics

<b>Tube</b>	CERAMIC SEGMENTS AL <sub>2</sub> O <sub>3</sub> Alumina and oxide(92%) joined together. Ceramic Segments are produced by press plumbing with the most advanced technology which gives Zero porosity.
<b>Reinforcement</b>	White concrete to fill the shell and stabilize Segments
<b>Steel body</b>	Shell made of S235JR thickness 3/4mm to contain Segments. At far ends mobile flanges for fixing to existing structures
<b>Characteristics</b>	Standard bend radius available from stock 1000/1500mm Internal diameters 50mm – 200mm Thickness 8mm – 25mm
<b>Temperature</b>	Up to 180°C (356°F) Maximum, FOR A FEW MINUTES 250°C





21

20

19

18

17

16

15

14

13

12

11

10

9





**Vinilgomma S.r.l.**

Via Mandolossa, 142 - 25064 Gussago (BS) - ITALY

Tel. +39 030 2410444 - Fax +39 030 318411

[www.vinilgomma.it](http://www.vinilgomma.it) - [info@vinilgomma.it](mailto:info@vinilgomma.it)