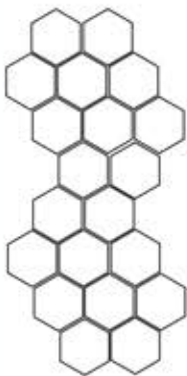




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PHYSICAL AND CHEMICAL CHARACTERISTICS OF CERABEST

Main component	Alumina oxide Al_2O_3	90%
Modulus of rupture at 20°C	(Kg/m ²)	$31,6 \times 10^6$
Modulus of rupture at 1300°C	(Kg/m ²)	$2,3 \times 10^6$
Tensile strength	(Kg/m ²)	$17,6 \times 10^6$
Density	(Gr/cm ²)	3,65
Hardness	(Mohs scale)	9
Hardness	(Rockwell 45N)	79
Pressure	(Kg/cm ²)	21.000
Resistance to bending stress	(Kg/cm ²)	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/ml	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 an cement etc...

WORKING TEMPERATURE :

-30°C (-22°F) TO +70°C (+158°F)

STANDARD LENGHT :

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 lenght : +/- 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