HATIMDIELECTRICS

Mica Tube

Mica tubes are rolled, hot pressed layers of mica paper sheets, a mineral with a laminated structure composed of aluminium, silicon, oxygen, and other elements. The layers are bonded together using specialized silicon / epoxy resins or adhesives, creating a sturdy solid insulating cylindrical structure. The resulting tubes are known for their high dielectric strength, excellent thermal resistance, and resistance to chemicals, moisture, and flames, and hot molten splashes of iron and metals.

Application

Commonly - In foundries, mica tubes are used to insulate and separate components during casting processes. Their ability to withstand the intense heat upto 1200°C of molten metals - makes them indispensable for maintaining the integrity of moulds and refractory linings.

Mica tubes also act as heat shields in welding and brazing processes. Their capacity to withstand extreme temperatures protects surrounding components and prevents distortion or damage due to excessive heat exposure.

Availability

Mica Tubes are available in round cylindrical form, square and rectangular shapes.

They are available with silicon or epoxy bonding in muscovite and phlogopite mica to suit different temperature applications, with inner diameter ranging from 15mm – 300mm or more and in standard length of 900, 1000 and upto 1200mm.

Deviations in specifications, construction, sizes or packing can be made upon customers' requests.

Shelf Life

Mica Tubes exhibit a shelf life of 12 months from date of manufacture when stored at a temperature 25°C and 50 % relative humidity.

Item	Unit	Mica Tubes	
Mica Type		Muscovite	Phlogopite
Colour		Cream	Brown
Mica Content	%	90	90
Resin Content	%	10	10
Density		2.1	2.1
BDV at RT	kV / mm	18	15
Flexural Strength	N / mm^2	200	150

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