



### TDS

### MICA GLASS ROLL

Item	Unit	CP 95G (Phlogopite Mica )
Thickness	mm	0.2 ~ 0.8
Density	g/cm <sup>3</sup>	1.8 ± 0.2
Length	m/roll	25, 50, 100
Width	mm	1000
Dielectric Strength	KV/mm	>15
Tensile Strength	N/15mm	≥100
Mica Content	%	>80
Binder Content	%	10 ~ 15
Fire Grades	°C	> 800

**Description:** Mica Roll is electric-thermal insulation. It is a flexible composite material consisting of Phlogopite Mica paper and glass cloth bonded with Silicon resin.

**Application:** These flexible and thermally resistant sheets are mainly used as slip plane insulation between the crucibles and induction coil in Induction furnace

Mica Roll protects the induction coil from the expansion forces of the refractory, serves as barrier leakage currents, and acts as a slip plane, facilitating removal of the crucibles

**Advantage:** It creates slip plane between the Induction coil and refractory in induction furnace

- a) Saves substantial energy costs by preventing heat loss in the crucibles
- b) Dampens expansion of crucibles, preventing damage of the coils
- c) Serves as an electrical barrier against leakage currents and flash over
- d) Serves as an additional wall in case of leak-through of molten metal
- e) Prevents moisture and gasses from the melt to condense on the coils, preventing premature coil failure
- f) Facilitates easy removal of crucibles with mica side towards the refractory
- g) Enables quick economic pre-sintering of the refractory when wrapped around reusable formers.

**Chhaperia International Co.**  
 Plot 270, 4th Phase, Peenya Industrial  
 Area, Bangalore - 560 058. India  
 Ph. : +91 80 41171552 / 28362823  
 Fax : +91 80 28360371 / 28396999  
 E-mail : info@micagroup.net  
 www.micagroup.net

#### Representative