



CUMITUFF® IGNITION ELECTRODES

Insulated electrodes are used in three roles, as igniters, flame detecting probes or liquid level probes in conjunction with appropriate control equipment. In the igniter and flame detector applications sealing of the conductor to the ceramic is unimportant, but for liquid level control it generally is, particularly in steam raising or other process plants where the process involves pressure.

CUMITUFF® Ignition Electrodes, by the use of 95% Alumina as insulator, possess superior mechanical strength and excellent thermal shock resistance. The sealed construction makes the igniters ideal for use as probes in liquid level controls and flame detectors. Leading Indian manufacturers of packaged boilers now rely entirely on CUMITUFF® Igniters.



DATA CHART FOR CERAMICS

Properties	Units	CUMITUFF® 95P	CUMITUFF® 95W
		95% Alumina	95% Alumina
Colour		Dark Pink	White
Density	gm/cc	3.7	3.7
Hardness	R45N	78	78
Water Absorption	%	Nil	Nil
Surface Finish	Micro-inches	15 - 20	15 - 20
Compressive Strength	Mpa	1650	1650
Co-efficient of Thermal expansion (0-1000 Degree Celsius)	$\times 10^{-6}/\text{deg C}$	8.8	8.9
Thermal Shock Resistance	Degree Celsius	170	170
Max Use temperature	Degree Celsius	1450	1450
Dielectric Strength	Ac-Kv/mm	8	8

This chart is intended to illustrate typical properties of advanced ceramic materials available from CUMI. Engineering data is representative. The designer should recognize that exact properties may vary according to product configuration and can sometimes be tailored to meet specific requirements.

Ceramic property values vary somewhat with method of manufacture, size and shape of the part. Hence the information set forth herein is offered for comparison only, and is not to be construed as absolute engineering data or constituting a warranty or representation for which we assume legal responsibility.

Contact us for cost-effective design, development and manufacturing assistance.



CARBORUNDUM UNIVERSAL LIMITED
CERAMICS DIVISION



MURUGAPPA
GROUP



Works:

#47, SIPCOT Industrial Complex,
Hosur - 635 126, Tamilnadu, India
Tel.: +91 4344 276027, 278480
Fax: +91 4344 276028

Regd Office:

"Parry House", 6th Floor, 43, Moore Street,
Chennai 600 001, TN, India
Tel.: 044 42216789, Fax : 044 2535176
www.cumi.murugappa.com