

CUMITUFF 92CSP

With state of the art facilities and strategic alliances with global partners, CUMI has achieved a reputation for quality and innovation by constantly listening to its customer needs and developing products that exceed their expectations. CUMITUFF 92CSP® is our range of wear resistant solutions for extremely abrasive and corrosive applications.

Properties

Properties	Units	Test (ASTM)	Value
M E C H A N I C A L			
Elastic modulus	Gpa	C1198-08	300
Poisson's ratio		C1198-08	0.22
Flexural strength	MPa	C1161-02c (2008)	330
Compressive strength	MPa	C1424-04	2000
Fracture toughness	Mpa.m ^{0.5}	C1421-01b (2007)	(4-5)
Vickers Hardness	R45N (Gpa,1000g)	C1327-03	77(12.5)
T H E R M A L			
Thermal Conductivity	W/m-k	C1470-06	20
Coefficient of thermal expansion @ 25-1000°C	10 ⁻⁶ /°C	C1470-06	8.1
Specific heat	J/Kg-k	C1470-06	900
Max. use temperature	°C	No load condition	1600
Thermal shock, Tc	°C	C1525-04	250
E L E C T R I C A L			
Dielectric strength	Ac-kv/mm (3.18mm)	D149- 97a (2004)	8.3
Dielectric loss	25°C @ 1MHZ	D2520-01	0.0004
Volume resistivity	25°C, ohm-cm	D2520-01	>10 ¹⁴
	25°C, ohm-cm	D1829	4*10 ⁸
	1000°C, ohm-cm		5*10 ⁵

Alumina Content = 92%

Colour = White

Water Absorption = 0%

Density = 3.65 gm/cc

“Excellent Wear & Corrosion Resistance”

Advantages

- Better equipment life
- Reduced downtime & thus increased productivity
- Less than half the weight of carbon steel, Ni-hard, AR steel or stainless
- Retrofit ability and thin sizes available to avoid volume loss
- Ease of installation
- Can be installed with adhesives, avoiding hazardous welding repairs

Applications

Apexes	Classifier Cones	Exhauster housings	Nozzles	Scrubbers	Tanks
Augers	Converter heads	Fan blades/Parts	Orifice rings	Separator bodies	Transitions
Batchers	Conveyor Comp.	Feeders	Piping	Silos	Troughs
Bottom Ash Pipe	Crushers	Flights	Pneumatic systems	Skip cars	Turn boxes
Bucket elevators	Cyclones	Fuel elbows	Pumps	Skit boards	Turrets
Buckets	Distributors	Gates	Reducers	Spouts	Valves
Burner pipes	Diverters	Head Chutes	Riffles	Spray dryers	\Valve gates
Canoe liners	Drag Conveyors	Hoppers	Scrapers	Spray Nozzles	Venturi vanes
Centrifuges	Ducts	Hydrocyclones	Screens	Storage bins	Wash boxes
Chippers	Dust collectors	Journals	Screw conveyors	Surge bins	Wastewater Piping
Chutes	Elbows	Multiports	Scrolls	Tanks	

Industries Served

Aggregate	Fibreglass	Iron & Steel	Power
Asphalt	Fly ash	Material handling	Pulp & Paper
Cement	Food processing	Mineral processing	Quarry
Chemical	Foundry	Mining	Recycling
Coal fired	Frac Sand	Oil sands	Roofing materials
Coal Processing	Glass & Frit	Oil & Gas	Sand & Gravel
Dredging	Grain	Petrochemical	Sugar
Fertilizer	Gypsum	Potash	Wastewater



Making
Materials
Matter

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