

### FILLIT : 0.85 H

#### PRODUCT DESCRIPTION:

Cenosphere are lightweight, hollow ceramic microspheres that are a by-product of coal combustion in power plants. These hollow spheres are mainly of alumina and silica and have pressurized nitrogen and carbon negative gas inside. Cenosphere helps in lowering the density of the mud slurry, which can be crucial in high-pressure or deep drilling situations.

#### KEY FEATURES AND BENEFITS:

- 1) Cenosphere are added to cement slurries used in well cementing.
- 2) Cenosphere improve the flow properties of the cement slurry, ensuring it can move easily through the annular space between the casing and the wellbore.
- 3) Cenosphere can be used as a Lost Circulation Material (LCM) to prevent the loss of drilling fluids into porous formations.

#### CHEMICAL COMPOSITION:

CHEMICAL	% PRESENCE
SiO <sub>2</sub>	>55
Al <sub>2</sub> O <sub>3</sub>	>31
Fe <sub>2</sub> O <sub>3</sub>	<3
MgO	<1
CaO	>2
K <sub>2</sub> O	>1
SiO <sub>2</sub>	>55
Loss	<1

#### PROPERTIES OF FILLIT 0.85 H:

PARAMETERS	SPECIFICATIONS
Particle Size (um)	5-500
Density (g/cm <sup>3</sup> )	0.80-0.85
Bulk Density (g/cm <sup>3</sup> )	0.35 - 0.48
Moisture	<0.5%
Sinkers	<5%
Loss on Ignition	2% Maximum
Thermal Conductivity	0.11 W/mk
Reactivity	Inert/Very Low Reactivity
Crush Strength	3500 - 4800 psi
Flammability	Not Combustible
Melting Point	1250-1350 DEG. C

#### PARTICLE SIZE DISTRIBUTION:

SIZE IN MICRONS	B.S.S	%(APPROX)
>500	30	2-5%
>300	52	5-15%
>150	100	20-30%
>106	150	35-45%
>63	240	80-90%
<63	240	10-20%

**SAFETY:** Material must be handled as an Industrial chemical, wearing protective equipment and observing the precautions as mentioned in the MSDS.

**PACKAGING:** FILLIT is available in 25 kg HDPE bags, jumbo bags and also Kraft paper bags.