

# CemNET

## Advanced loss-control fiber technology

### APPLICATIONS

- To regain lost circulation while cementing
  - under all temperature conditions
  - for all slurry densities
  - in most cement slurry formulations

### BENEFITS

- Eliminates losses during cementing operations, reducing the need for costly remedial squeeze operations
- Ensures that designed cement tops are achieved
- Helps prevent cement fallback
- Reduces excess cement returns, thus decreasing disposal costs
- Provides immediate coverage of loss zones during cementing operations

### FEATURES

- Forms bridging network
- Can be added to the cement slurry in real time
- Does not affect cement properties
- Compatible with most cementing systems and additives

### Advanced fiber cement

When cementing casing, some of the cement can be lost into natural fractures, fissures, vugs, or highly porous zones even when the fracture pressure is not exceeded. CemNET\* advanced loss-control fiber technology is composed of an inert, fibrous material capable of forming a network across the loss zone, allowing circulation to be regained. The CemNET technology fibers are engineered to an optimal size for sealing loss zones.

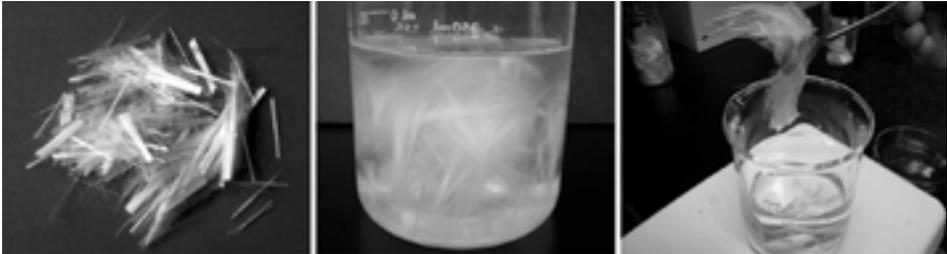
### Effectively maintains cement returns

Compatible with most cementing systems and additives, CemNET technology is added during the cementing process. Because the inert CemNET technology does not affect specified cement properties, it can be added to the slurry at the mixing tub. This feature enables the technology to be used only in the portion of the slurry designated to be pumped downhole where losses are expected to occur. Once dispersed in the slurry, the CemNET technology creates a physical network that, when placed across loss zones, enables the cement to bridge off these zones, resulting in resumed circulation of the cement during treatment.

### Reduces disposal costs

CemNET technology seals areas having potential for losses during treatment, reducing both the volume of cement used during treatment and the cost of disposal during cleanup.

In operations where CemNET technology is not used, operators must pump excess cement downhole in anticipation of losses to fractures, fissures, vugs, or highly porous zones during treatment. By adding CemNET technology fibers to the existing cementing program, well costs associated with disposal of excess cement and remedial cementing operations to repair low cement tops can be eliminated.



*CemNET fibers are inert and require no special handling.*

*The fibers can be readily dispersed in water-based fluids such as cement.*

*A network structure is formed, allowing the cement to bridge off and resume circulation.*

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