SanSeal HT

Microfine Cement Blends

BLEND DESCRIPTION & APPLICATION

SanSeal HT is a silica-stabilized microfine cement for use in wells where the temperature is above 70°C. Unlike conventional Portland cements, typical microfine cements may suffer from strength retrogression at temperatures above 70°C. SanSeal HT contains a finely ground silica source, not only to ensure thermal stability, but also to maintain a controlled microfine particle distribution that ensures good penetration into small flow channels.

FEATURES & BENEFITS

- Particle size: 95% of the cement particles are smaller than 15 microns
- Stabilized for use at high temperatures
- Low viscosity
- Typically batch-mixed to ensure accurate density and consistent slurry properties

Physical Properties	
Density	1500 kg/m³
Water Requirement	0.94 m³/T
Yield	1.29 m³/T
Bulk Density	0.928 T/m³

Typical Data		SanSeal HT + Typical Additives				
BHCT (°C)	**BHST (°C)**	**Thickening Time (hr:min)**	**Viscosity (cP)**	**Compressive Strength (MPa)**		
				8 hrs	**16 hrs**	**24 hrs**
60	60	3:00	30	0.5	8.0	14.0
80	80	3:40	40	0.5	12.5	15.3
100	100	4:20	60	14.0	16.0	17.0

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Sanjel's X-Ray Diffraction instrument can identify the minerals created when SanSeal HT is set at high temperatures. There are specific calcium silicate mineral types that are known to be thermally stable. Examples of these species are xonolite, tobermorite, and gyrolite. This instrument has the capability to detect all of these and more.

SAFETY & HANDLING

Cement is alkaline and abrasive; avoid contact with eyes and skin. Gloves, goggles, and respirator should be used when handling cement. Refer to MSDS for detailed handling instructions.