LH-E302

High-temperature (HT) well cement blend

BENEFITS

- Pre-blended high-temperature cement based on API Class G and 35% BWOC silica flour
- Reduced operational costs related to blending and quality control of silica flour
- Consistent, high-precision addition of silica flour in a homogenous blend
- Particle size of silica flour (< 200 mesh) optimized for slurry properties
- Low powder segregation during transport and storage
- Proven resistance to strength retrogression
- Compatible with commercialized cementing additives
- Minimized personal exposition to respirable silica in field operations

APPLICATIONS

- Can be used in all HT well cementing applications at temperatures above 110 °C (230 °F).

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LH-E302 is a blend of a Lafarge-Holcm Class G API well cement with 35% silica flour by weight of cement (BWOC).

This blend is designed to prevent strength retrogression of normal well cements above approximately 110 °C (230 °F) , where deleterious changes in mineralogy of the hardened cement slurry normally occur. LH-E302 has proven to show good strength maintenance at HT (Fig. 1).

In addition, LH-E302 offers several advantages over in-house silica blends including i) guaranteed consistency, homogeneity, and quality of the blend, ii) reduced costs related to blending and quality control, and iii) reduced exposure of employees to respirable silica.

LH-E302 is compatible with conventional cementing additives, making it a ready-to-use solution for your HT well applications.

PHYSICAL PROPERTIES

Silica (quartz) purity	> 97%
Silica fineness	< 200 mesh
Blaine fineness of blend	3880 cm^2/g
Silica flour content	> 35% by mass of class G cement (i.e. > 25.9% by mass of blend)

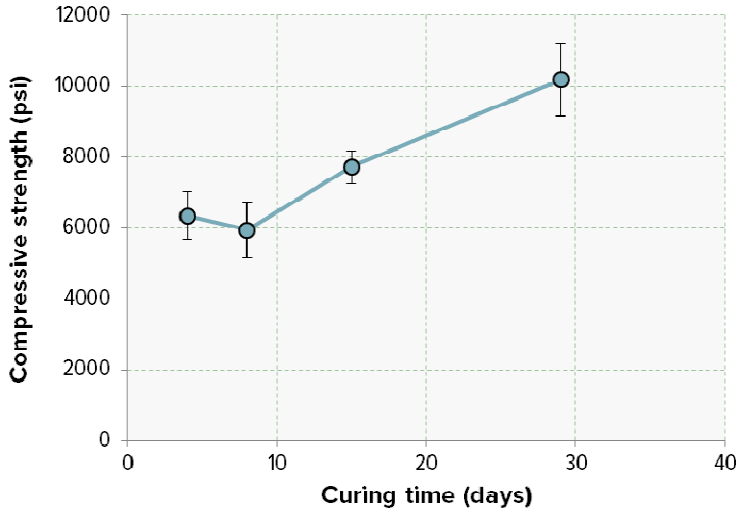

Fig 1. Cube crush strengths for the HT cement blend at 1.89 g/cm^3 (15.8 lb/gal) density cured in a curing chamber at 110 °C (230 °F).