



WELL-CEM

Class G HSR Cement

API 10 A

Drilling cement

EPD & MSDS are available



Class G HSR cement is a high-quality oil-well cement specifically designed for cementing operations in oil and gas wells. It is manufactured to provide reliable performance under high pressure and high-temperature conditions. HSR (High Sulfate Resistance) means that the cement has a high resistance to sulfate attack, making it suitable for formations and well environments where sulfate-containing fluids are present.

KEY CHARACTERISTICS :

- Complies with the requirements of API Specification 10A for oil-well cement, when manufactured and certified accordingly.
- Manufactured to provide consistent quality and performance throughout production.
- Designed for oil and gas well cementing.
- Suitable for high-pressure and high-temperature (HPHT) applications.
- Provides high resistance to sulfate attack.
- Offers good compressive strength development.
- Provides effective zonal isolation and helps prevent fluid migration between formations.
- Can be used at various well depths when properly designed with appropriate additives.

TYPICAL APPLICATION :

- Class G HSR cement is commonly used for casing cementing, primary cementing, liner cementing, and remedial cementing operations in oil and gas wells, particularly where high sulfate resistance is required.

SAFETY INSTRUCTIONS :

- PPE: Wear appropriate personal protective equipment.
- Big Bag handling: Inspect the Big Bag and lifting loops before handling.
- Safe lifting: Use suitable lifting equipment and never stand under a suspended Big Bag.
- Storage: Keep Big Bags on a stable surface, dry and protected from weather conditions.

TECHNICAL CHARACTERISTICS :

Standard: API 10A

CHEMICAL ANALYSIS

Paramètre	Min.	Max.	Standard's Requirement
MgO (Magnesium Oxide) (%)	1,4	3,4	Max 6.0 %
SO ₃ (Sulphur Trioxide) (%)	2,50	2,90	Max 3.0 %
LOI (Loss on ignition) (%)	1,1	1,9	Max 3,0 %
IR (Insoluble Residue) (%)	0,18	0,50	Max 0,75 %
Eq.Na ₂ O (Equivalent Alkalies) (%)	0,39	0,48	Max 0,75 %
Tricalcium silicate (C ₃ S) (%)	53	63	Min 48 % / Max 65 %
C ₃ A (%)	1,4	2,6	Max 3 %
2C ₃ A + C ₄ AF (%)	17,1	19,0	Max 24 %

10A SPECIFICATION

Indicative values – Min. / Max.

Paramètre	Min.	Max.	Exigence standard
Free Fluid (%)	3,0	5,1	Max 5,9 %
Thickening time (Bc 100) (min)	94	118	Min 90 min / Max 120 min
Maximum consistency (15-30 min) (Bc)	10	18	Max 30 Bc
Compressive strength 8h 38°C (MPa)	3,0	5,5	Min 2.1 MPa
Compressive strength 8h 60°C (MPa)	13,0	17,5	Min 10.3 MPa