

API OIL WELL CEMENT CLASS “G” TYPE (HSR)

HIGH SULFATE RESISTANT

STANDARD American Petroleum Institute (API SPEC 10A)

STRENGTH 8 H · 60 °C
1600 - 2248 psi

FINENESS
4315 cm²/g

PACKAGING
1.5 T Big Bags

UPDATED
May 2026

OVERVIEW

Intended for **oil well drilling operations**, to provide a cement sheath between the borehole wall and the casing.

KEY FEATURES

- Can be used neat for a wide range of well depths.
- When used with additives (retarders, accelerators, etc.), it is suitable for a wide range of well depths.
- Complies with API (American Petroleum Institute) standards.

CHEMICAL ANALYSIS

Sulphur Trioxide (SO ₃)	2.3 - 2.7 %
Magnesium Oxide (MgO)	1.0 - 1.5 %
Loss On Ignition (LOI)	0.95 - 1.5 %
Na ₂ O Eq (Na ₂ O + 0.658 K ₂ O)	0.28 - 0.35 %
Insoluble Residue	0.4 - 0.6 %
Tricalcium silicate (C ₃ S)	58 - 62 %
Tricalcium aluminate (C ₃ A)	2.0 - 2.7 %
2 C ₃ A + C ₄ AF	20 - 22 %

PHYSICAL ANALYSIS

Thickening Time to 100 Bc (min)	100 - 116 min
Bearden units of consistency (15 min to 30 min) (Bc)	08 - 20 Bc
Free Water Content (%)	2.0 - 5.5 %
Fineness (Blaine) (cm ² /g)	4315
Cement Density (g/cm ³)	3.18

COMPRESSIVE STRENGTH

Compressive Strength (8 h) at 38 °C (psi)	310 - 700 psi
Compressive Strength (8 h) at 60 °C (psi)	1600 - 2248 psi

Typical average values.