

WELL CEMENT

Well Cement Class G (HSR)

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Well Cement is manufactured in accordance with the U.S. API SPECIFICATION 10 A Standard Class G HSR (High Sulfate Resistant). This brand of cement is suitable for use in oil and natural gas exploration drilling.



Specifications for Well Cement Type

Specifications	Well Cement Class G HSR API SPECIFICATION STD 10A		Typical Well Cement Brand
Chemical requirements			
Magnesium oxide (MgO)	Max.%	6.00	4.50
Sulfur trioxide (SO ₃)	Max.%	3.00	2.50
Loss on ignition	Max.%	3.00	1.00
Insoluble residue	Max.%	0.75	0.40
Tricalcium silicate (C ₃ S)	%	48-65	61
Tricalcium aluminate (C ₃ A)	Max.%	3	1.5
Tetracalcium aluminoferrite Plus twice tricalcium aluminate (C ₄ AF+2C ₃ A)	Max.%	24	17.5
Total alkali content expressed as sodium oxide (Na ₂ O) equivalent	Max.%	0.75	0.50
Physical requirements			
Free fluid content	Max.%	5.90	3.50
Thickening time	Minutes	90-120	95
Compressive strength			
8 Hours curing time, at 100° F atm.	psi Min.	300	700
8 Hours curing time, at 140° F atm.	psi Max	1500	1700
Maximum consistency 15-3- minutes Stirring period	BC Max.	30	20

