

Common Drilling Mud Cations (+ions)

Ion Name	Symbol	Valence
Aluminum	Al	+3
Ammonium	NH ₄	+1
Barium	Ba	+2
Calcium	Ca	+2
Carbon	C	+4
Cesium	Cs	+1
Chromium (Chromic)	Cr	+3
Chromium (Chromus)	Cr	+2
Copper (Cuprium)	Cu	+2
Hydrogen	H	+1
Iron (Ferric)	Fe	+3
Iron (Ferrous)	Fe	+2
Lead (Plumbic)	Pb	+4
Lead (Plumbus)	Pb	+2
Magnesium	Mg	+2
Manganese	Mn	+2
Nickel	Ni	+2
Phosphorus	P	+5
Potassium	K	+1
Silicon	Si	+4
Silver	Ag	+1
Sodium	Na	+1
Zinc	Zn	+2

Common Drilling Mud Anions (-ions)

Ion Name	Symbol	Valence
Bicarbonate	HCO ₃	-1
Bisulfate	HSO ₄	-1
Bisulfide	HS	-1
Bisulfite	HSO ₃	-1
Bromate	BrO ₃	-1
Bromide	Br	-1
Carbonate	CO ₃	-2
Chloride	Cl	-1
Chromate	CrO ₄	-2
Dichromate	Cr ₂ O ₇	-2
Fluoride	F	-1
Hydroxide	OH	-1
Hypochlorite	ClO	-1
Nitrate	NO ₃	-1
Nitrite	NO ₂	-1
Perchlorate	ClO ₄	-1
Phosphate	PO ₄	-3
Sulfate	SO ₄	-2
Sulfide	S	-2
Sulfite	SO ₃	-2