

ATTACHMENT IV-2
STABILIZATION REAGENT LIST

Commonly Used Stabilization Reagents

Pozzolan Materials

Cement
Cement Kiln Dust
Fly ash (Class F & C)
Lime
Lime Kiln Dust
Sodium Silicate
Zeolites (Aluminum Silicates)
Metabond
Enviroblend
Envirobond
EnviroMag

Oxidizers/Reducers

Aluminum Hydroxychloride
Ammonium Phosphate
Ammonium Sulfate
Calcium Hypochlorite
Copper Sulfate
Ferrous Ammonium Sulfate
Ferrous Nitrate
FeSO₄ (Ferrous Sulfate)
Green Phosphate
Hydrogen Peroxide
Nonoxinol-9
Potassium Permanganate
Potassium Phosphate (Monobasic)
Sodium Hydrosulfite
Sodium Hypochlorite
Sodium Metabisulfite
Sodium Percarbonate
Sodium Polyphosphate
Thio-red
Trisodium Phosphate
T-Chlor 12.5

pH Adjustment

Ammonium Hydroxide
Calcium Sulfate (Anhydrous)
Sodium Hydroxide
Sulfuric Acid

Precipitation/Flocculants

Ammonium Sulfate
Anionic-Cationic Flocculants
Calcium Chloride
Calcium Sulfate
Cellulose Xanthate
Colloidal Silicon Dioxide
Ferric Oxide
Ferrous Oxide
Ferrous Sulfate Heptahydrate
Sodium Aluminate
Sodium Carbonate
Starch Xanthate
Calcium Polysulfide
Sodium Dimethyldithiocarbamate

Absorbents/Binding Agents

Carbon
Chembond (Modified Clay)
Liqui-Set (Modified Clay)
Liquibond (Modified Clay)

Wetting Agents/Dispersants/Chelating Agents/Solvents (to enhance mixing and reactions)

Methanol
Water

Other

Aluminum Chips
Brass Chips
Sand
Iron Chips
Salt Water
Sulfur

Stabilization Reagents
Special Additions/Other Usages

Citric Acid For: chelating agent	CAS 77-92-9
Ferric Chloride For: reducing agent	CAS 7705-08-0
Sodium Meta Silicate For: volume reduction and metal fixation	CAS 6834-92-0
Aluminum Oxide For: cement strengthening and metal fixation	CAS 1344-28-1
Cupric Nitrate For: oxidizer catalyst	CAS 3251-23-8
Copper Bromide For: oxidizer catalyst	CAS 7789-45-9
Copper Sulfate For: oxidizer catalyst	CAS 7758-98-7
Sodium Peroxide For: oxidizer	CAS 1313-60-6
Calcium Peroxide For: oxidizer	CAS 1305-79-9
Sodium Persulfate For: oxidizer	CAS 7775-27-1
Various Surfactant Mixture/Blends For: emulsification/polarity adjustment	No CAS available: manufacturer proprietary
Methanol For: polarity adjustment	CAS 67-56-1
Isopropyl Alcohol For: polarity adjustment	CAS 67-63-0