



HYBRID CHEMICAL
TECHNOLOGIES

CATIONIC ANTI-SLUDGING AGENT

HCAS-1

HCAS-1 is a cationic anti-sludging agent used as the primary component in a cost-effective cationic hydrochloric acid package system. It has been specifically developed for use in treatments as high as 28% HCl and compatibility in problem areas such as the Swan Hills.

TREATMENT

HCAS-1 is typically used between 3.0 and 7.0 L/m³, depending on the concentration of hydrochloric acid and properties of the oil.

Generally, no additional iron control or demulsifying surfactants are required.

PERFORMANCE

28% HCl, Swan Hills Oil

5000 ppm Fe³⁺

80°C

HCAS-1 Cationic System



5 Minute
Emulsion Break

No Sludge

Traditional Anionic System



10 Minute
Emulsion Break

Heavy Sludge

No Iron Control or Surfactant Required

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