



BAROID SYSTEM FLOC-360®

Flocculant

Description	SYSTEM FLOC-360® polymeric flocculant is used to flocculate clays and shales encountered in drilling operations and facilitate recycling and/or disposal of water-based drilling fluids.												
Applications/Functions	<ul style="list-style-type: none">• Promotes flocculation and settling of dispersed formation solids in clear fluids and conventional drilling fluids												
Advantages	<ul style="list-style-type: none">• Can create aggressive water/solids separation• Can improve clarity of residual fluids after treatment• Effective in low to moderate concentrations												
Typical Properties	<table><tr><td>• Appearance</td><td>Amber Liquid</td></tr><tr><td>• Specific gravity</td><td>1.14- 1.18</td></tr><tr><td>• Freeze point, °F, (°C)</td><td>20°F (-7°C)</td></tr><tr><td>• pH of 1% aqueous solution @ 25°C</td><td>5.5-6.5</td></tr><tr><td>• Viscosity* @ 25°C (*Brookfield LVT, 30 rpm, Spindle #1)</td><td>80-120 cP</td></tr><tr><td>• Solubility in water</td><td>100% miscible</td></tr></table>	• Appearance	Amber Liquid	• Specific gravity	1.14- 1.18	• Freeze point, °F, (°C)	20°F (-7°C)	• pH of 1% aqueous solution @ 25°C	5.5-6.5	• Viscosity* @ 25°C (*Brookfield LVT, 30 rpm, Spindle #1)	80-120 cP	• Solubility in water	100% miscible
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Recommended Treatment	<p><i>For flocculation treatment of fluid systems containing PHPA polymer:</i></p> <ul style="list-style-type: none">• Recommended treatment concentration is between 1.0 - 2.0 % by volume• Final product concentration can be influenced by method of introduction and efficiency of reaction created. SYSTEM FLOC-360 should be introduced with agitation to optimize speed and efficiency of reaction.• Disposal of solids and water phase should always be done in accordance with all applicable federal, state and local regulations.• Responsible handling and disposal of drilling fluids, water phase effluent and produced solids require that these materials should not be allowed to gain entry into any stream, waterway or body of water. If reusing water phase in fresh drilling fluid, effluent should be treated with bentonite to remove excess SYSTEM FLOC-360 prior to mixing.												

Recommended Treatment (continued)

For clean-out of Drilled Shafts using PHPA polymers:

- Using the diameter of the drilled shaft calculate the volume of a 1-2 foot interval of the open hole.
- Add SYSTEM FLOC-360 flocculant at a concentration of 0.5 - 1.0 % by volume and place directly to the bottom of the shaft. Based on calculated volumes, the appropriate amount of SYSTEM FLOC-360 flocculant can be placed in collapsible bags allowing delivery to the bottom of the shaft or material can be tremied into place.
- After proper placement, use of the auger flights to create agitation is necessary for effective dispersion of the SYSTEM FLOC-360 flocculant and incorporation with existing solids.
- Crosslinked polymer and drilled solids can be removed using a vented clean-out bucket

Packaging

SYSTEM FLOC-360™ flocculant is packaged in 55-gallon (208.2 L) non-returnable steel-drums and 5-gallon (18.9 L) resealable plastic containers.
