**TECHNICAL BULLETIN**

**FQE Solvent-H**

Award-winning asphaltene dispersant and anti-foulant

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**Product Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk density</td>
<td>7.93 lb/gallon, 950 kg/m³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not Miscible in Water</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 220°F (104°C)</td>
</tr>
<tr>
<td>Approximate storage life</td>
<td>1 year</td>
</tr>
</tbody>
</table>

**Standard Package**

55 US gallons (208 litre) closed head poly drum, tote bin, or bulk.

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**FQE® Solvent-H** is highly effective in dissolving solid hydrocarbon deposits, typically confused for coke deposits, that are found in vacuum tower bottoms, coker fractionator bottoms, oil storage tanks, heat exchangers and other processing equipment and takes days to remove mechanically.

By rapidly liquefying hydrocarbon solids, FQE Solvent-H will reduce outage days, reduce waste volumes and improve hydrocarbon recovery substantially cutting the cost of maintenance outages. The dissolved hydrocarbon solids will remain liquid and can be reintroduced into refinery operations without incident. FQE Solvent-H is non-corrosive to mild and stainless steel and all soft metals and will not harm refinery catalyst activity.

**Application**

FQE Solvent-H can be applied by any convenient non-atomizing method; liquid circulation/cascade. It should be used in areas with good ventilation and kept away from open flames.

FQE Solvent-H is recommended for use on refinery equipment, petrochemicals equipment, hydrocarbon stained concrete pads, cleaning metal parts and other hard surfaces. It is especially effective on removing heavy tars and greases from effected surfaces and in decontamination of exchangers and other process equipment.

FQE Solvent-H may also be used in degassing application injection into steam due to its unique ability to dissipate static electrical charges that may be of concern.

**Dilution**

FQE Solvent-H can be applied in a concentrated form. It can also be diluted 5 to 10% by volume in a hydrocarbon carrier or mixed with a suitable detergent cleaning solution if a water-based cleaner is desired.
CASE HISTORY

Rail Car Chemical Decontamination & Change of Service

Cleaning efficiency increased as chemicals utilized for.

Chemicals Utilized

- Minimal sludge deposits were removed all traces of LEL and H2S left over after chemical cleaning.
- Dissolved the asphaltenes and equipment charges
- LEL-V was oil-free.

Results Achieved

- Typically separation settler diagram
- SOLVENT
- ASPHaltenes
- WATER, SOLIDS
- PLATE
- SPACE
- FEEDWELL
- VERTICAL LIP
- 60˚
- FEED & SOLVENT
- BITUMEN
- 60˚
- FEED & SOLVENT
- CLEAN CONE BOTTOM

Equipment Cleaned

- Three Stripper Towers
- Pentane Absorber

Preferential use at issues with prior turnarounds. Fouled at the bottom. It was confirmed that fouling was significantly higher than relocated the injection point and indicated communication at

Prior to chemical application, it was confirmed that there was a chemical method.

Client traditionally had issues with LEL and VOC levels that required additional steaming and this would end up delaying manpower entry an additional 12-24 hours. Due

An oil refinery in Wyoming running heavy Canadian crude utilized FQE® Solvent-H, FQE® H2S, and FQE® Pyrophoric for their turnaround operations and saved 1 day of

Video Library

View videos from our lab where we have tested a range of client samples to show how effective our chemicals are.

fqechemicals.com/videos

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