



TouCor Corrosion Inhibitor System for Acidizing

TouCor F-1 corrosion inhibitor system combines the benefits of a traditional corrosion inhibitor with those of TouGas' proprietary acid gellant. Key benefits of this innovative fluid design are:

- Excellent reduction of corrosion rate for common OCTG qualities
- Enables acidizing for lower grade OCTG alloys translating into cost savings for casing and tubing
- Extends lifetime of OCTG products translating into cost reduction for workovers
- Performs in hydrochloric acid with high acid content up to 28%
- Combined performance as acid gellant and corrosion inhibitor reduces operational costs

TouCor F-1

TouCor F-1 is based on TouGas acid gellant. It is specifically designed to provide **excellent corrosion inhibition in combination with acid thickening performance**. It eliminates the need for special or additional corrosion inhibitor, thereby reducing operational cost.

TouCor F-1 very efficiently protects steel surface. For 13Cr80 at 90 °C / 194 °F **no pitting** or other types of local corrosion are observed.

**13Cr80 at 90 °C / 194 °F
in 15 % HCl for 6 h**

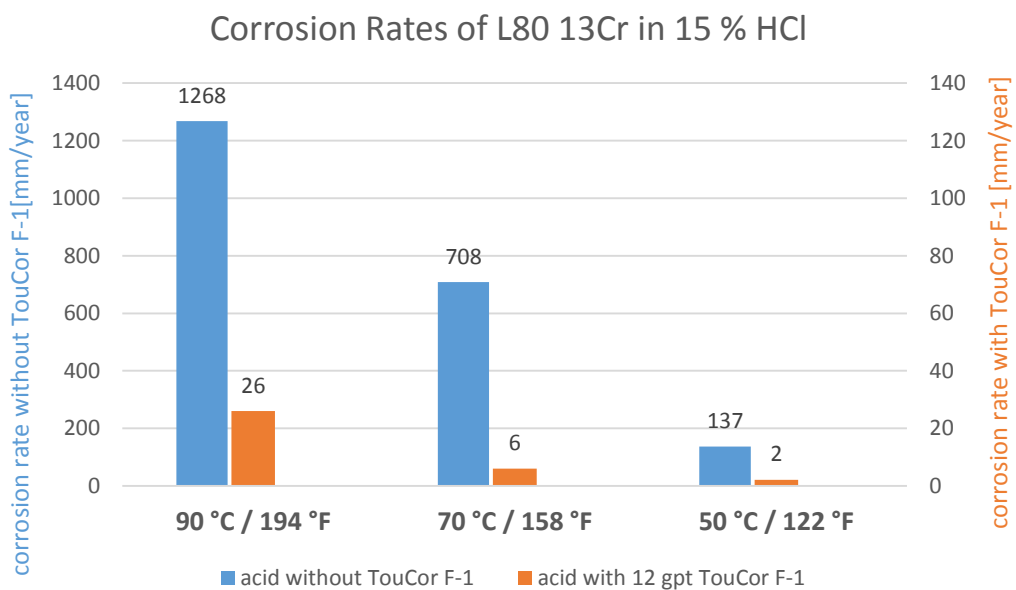


**without
TouCor F-1 (12 gpt)** **with
TouCor F-1 (12 gpt)**



Excellent Protection for 13Cr80 Steel for Broad Temperature Range

TouCor F-1 efficiently protects alloys as **L80 and 13Cr80** and therefore allows the use of these lower alloy steel qualities for acidizing jobs, leading to substantial cost savings. **Corrosion rate is reduced by 98 % or more** by applying TouCor F-1 compared to the non inhibited system in a broad temperature range from ambient to 90 °C / 194 °F.



Test conditions: 13Cr80 specimen were treated at different temperatures for 6 h under stirring in 15 wt-% hydrochloric acid containing 12 gpt TouCor F-1. Reference tests were done using non-inhibited HCl.

Recommended Use

Use rate depends on conditions and job requirements.

Stir container prior to field deployment to ensure best performance of the product. Over time the product may settle down in the container and the formation of a small oil film might be observed. This is normal and does not affect product performance. Re-disperse by mechanical agitation. Do not use air-stirring, since the moisture in the air will cause hydration and lead to a high viscous mass.

Store at ambient temperature.