



**HYBRID CHEMICAL  
TECHNOLOGIES**

# WIRELIN SAFE ACID

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## WL-HCL-15

WL-HCL-15 is a low-fuming, inhibited concentrated 15% Hydrochloric Acid. The base wireline acid blend designed for 28% HCl acid is diluted on location, typically at a 1:2 ratio with water. The resulting dilution provides wireline-safe inhibition and dissolution properties for typical plug-n-perf operations but with significantly enhanced cost savings over the alternative wireline-safe acid packages on the market.

## **ADVANTAGES**

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- Concentrated acid package is hauled out containing all the additives and inhibitors to provide protection for sensitive wireline, even after dilution down with water on-site.
- Significant cost savings on logistical hauling due to concentrate, in addition to superior cost-to-price performance.
- Low-fuming formulation provides 15% HCl equivalent without the evaporation and enhanced safety profile over normal 28% HCl.
- Contains corrosion inhibitors, iron control and surfactants for the complete all-in-one spearhead package.
- Approved by major North American wireline suppliers for use.

## **TREATMENT**

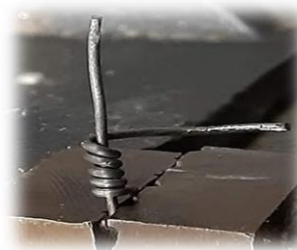
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The base wireline acid blend (28%) is typically diluted 1:2 with water on-site, yielding an inhibited 10-15% HCl equivalent acid package for standard acid spearhead and plug-n-perf operations.







## **LAB RESULTS**

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WL Loop-Wrap  
Brittleness Test  
**PASS**



## WL-HCL-28 (Diluted 1:2 v/v with water), 90C for 12 hrs Exposure

	Initial Mass (g)	End Mass (g)	Mass Loss (g)	Length (in)	Diameter (in)	Mass Loss (%)	Before Exposure	Post Exposure
<b>Inner WL Strand</b>	0.562	0.521	0.041	3.5625	0.04	7.21%		
<b>Outer WL Strand</b>	0.430	0.401	0.029	3.5625	Single wire: 0.02  3-wire bundle: 0.0385	6.74%		
<b>Strand With Sheath</b>	17.578	17.501	0.078	3.00	0.343	0.44%		
<b>WL Metal Coupon</b>	14.234	14.084	0.150	0.743	0.2525	1.05%	