Alloy 317L has excellent corrosion esistance in a wide range of chemicals. It esists attack in sulfuric acid, acidic chlorine and phosphoric acid. It is used in handling hot organic and fatty acids often present in food and pharmaceutical processing applications.

The corrosion esistance of 317 and 317L should be the same in any given environment. The one exception is where the alloy will be exposed to temperatures in the chromium carbide precipitation range of 800–1500°F (427–816°C). Because of its low carbon content, 317L is the preferred material in this service to guard against

In general, austenitic stainless steels are subject to chloride stress corrosion cracking in halide service. Although 317L is

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