Inhibitor 11

Inhibitor 11 is a liquid product used in a hydrochloric or sulfuric acid solution to inhibit the attack of the acid on steel or cast iron in a pickling operation.

Inhibitor 11 will "plate out" on the steel or cast-iron surface but not on the rust or scale. The sulfuric acid will then only be consumed in dissolving the rust and scale. Once the rust and scale have been dissolved the Inhibitor 11 will cover this area, preventing further reaction of the acid solution on the metal's surface.

In summary, Inhibitor 11 will only allow the acid to react with the scale and rust - not with the surface of the metal. Consequently, the inhibitor's function is twofold:

1. Conserve acid: the acid is only consumed in the rust and scale removal.
2. Eliminate needless pickling of the metal, which will destroy its surface.

Features & Benefits

Forms protective film on iron alloys	Eliminates base metal attack, longer bath life Less rejects, higher productivity

Operating Conditions

Inhibitor 11 should only be used in inhibiting hydrochloric or sulfuric acid solutions.

Concentration	1% – 3%
Temperature range	Ambient – 160°F (71°C)

<u>Control and Addition Rate</u>
It is not possible to check the concentration of the Inhibitor 11 by an analytical procedure. The makeup additions will be made when fresh acid is added.

Caution

When handling Inhibitor 11, avoid skin, eye and oral contact. Wash exposed areas with clean water. For eyes, contact a physician immediately.

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