

Alodine®



# Henkel Industrial Solutions Surface Treatment Selector Guide



## ACID INHIBITORS

P<sub>3</sub>® Rodine® is the worldwide standard for acid inhibitors – a reputation earned by on-the-job performance and proven results. P<sub>3</sub>® Rodine® acid inhibitors are formulated to insure cost-saving dependability, without slowing production.

**Rodine® 102™** – Powdered chemical designed to inhibit the attack of sulfamic and sodium bisulfate solutions on mild steel, stainless steel, copper and/or brass during industrial cleaning operations.

**Rodine® 103™ NPF** – Unique liquid inhibitor designed specifically for use in industrial cleaning operations to prevent acid attack on mild steel, stainless steel and copper or brass.

**Rodine® 145L™** – Liquid inhibitor especially designed for the reduction of acid attack on zinc and galvanized surfaces. It will also help protect mild steel, copper, brass and stainless steel from attack by several acids.

**Rodine® 2010™** – Low toxicity, nonflammable, highly soluble, low viscosity, liquid metal loss inhibitor for use especially in tetraammoniated ethylenediaminetetraacetic acid (EDTA) cleaning solutions.

**Rodine® 213 SF™** – Organic, liquid, cationic corrosion inhibitor especially designed to inhibit the attack of hydrochloric acid on iron and steel during industrial cleaning operations. It also inhibits acid attack on copper and brass.

**Rodine® 31A™** – Liquid, cationic acid inhibitor designed specifically for use in chemical cleaning operations where chloride-free solvents such as citric, hydroxyacetic and formic acids are used.

**Rodine® 3305™** – Low viscosity liquid, non-foaming\* inhibitor for use in hydrochloric acid continuous or batch type pickling operations.

**Rodine® 426™** – Low toxicity organic liquid, cationic corrosion inhibitor especially designed to inhibit the attack of hydrochloric acid on iron and steel during industrial cleaning operations.

**Rodine® 55™** – Amber-colored, powdered inhibitor designed for use in conventional sulfuric acid pickling operations.

**Rodine® 85™** – Soluble, low foaming, liquid inhibitor formulated for use in conventional sulfuric acid pickling operations. Effective on any type of steel, and can be used at any acid concentration.

Products	Order Item Number	Form	Maximum Temperature	Main Use	Used With the Following Acids	NSF Registered	Compatible Metals
Rodine® 102™	594613	Powder	180°F	Acid Inhibitor	Sulfuric, Sodium bisulfate	Yes	See Technical Process Bulletin*
	594881						
Rodine® 103™ NPF	621410	Liquid	150°F	Acid Inhibitor	Phosphoric, Sulfuric, Hydrochloric, Hydroxyacetic (Glycolic), Citric, Oxalic, Sulfamic, Tataric, Sodium bisulfate, Acetic	Yes	See Technical Process Bulletin*
	693536						
Rodine® 145L™	898822	Liquid	120°F	Acid Inhibitor	Sulfamic, Citric, Hydrochloric, Sulfuric	No	See Technical Process Bulletin*
	899060						
Rodine® 2010™	1314676	Liquid	350°F	Boiler Clean Out	EDTA and Ammoniated EDTA	No	See Technical Process Bulletin*
	1380617						
Rodine® 213 SF™	1393854	Liquid	220°F	Acid Inhibitor	Hydrochloric	No	See Technical Process Bulletin*
	1393855						
Rodine® 31A™	592762	Liquid	180°F	Acid Inhibitor	Phosphoric, Sulfuric, Hydroxyacetic (Glycolic), Citric, Formic, Oxalic, Sulfamic, Tataric, Sodium bisulfate	No	See Technical Process Bulletin*
	592763						
	593979						
Rodine® 3305™	831469	Liquid	See TPB*	Acid Inhibitor	Hydrochloric	No	See Technical Process Bulletin*
Rodine® 426™	594279	Liquid	220°F	Acid Inhibitor	Hydrochloric	No	See Technical Process Bulletin*
Rodine® 55™	594039	Powder	190°F	Acid Inhibitor	Sulfuric	No	See Technical Process Bulletin*
Rodine® 85™	594521	Liquid	195°F	Acid Inhibitor	Phosphoric, Citric, Oxalic, Sulfamic, Sodium bisulfate, Acetic	No	See Technical Process Bulletin*

\* For Technical Process Bulletins, go to [www.henkeln.com/industrial](http://www.henkeln.com/industrial) or call 1.800.562.8483.