

THE SUPERIOR LEVEL GAUGE



Concerned With Process Build-Up In Your Magnetic Level Gauge?

Tired of Cleaning or Flushing Your Magnetic Level Gauge?

INTRODUCING PLT'S NON-STICK METAL TREATMENT: NST

PLT is offering a new patented metal treatment for magnetic level gauges. Our new in house NST treatment repels oil or water based liquids. NST prevents build up on the float and the interior of the chamber. This can reduce or eliminate both maintenance and failure rate of your magnetic level gauges.



888 Clear Creek Avenue
League City, Texas 77573

P: 281-332-6241
F: 281-332-0232

mag-gage.com

PLT's NST TREATS ALL WETTED PARTS OF THE MAG-GAGE®

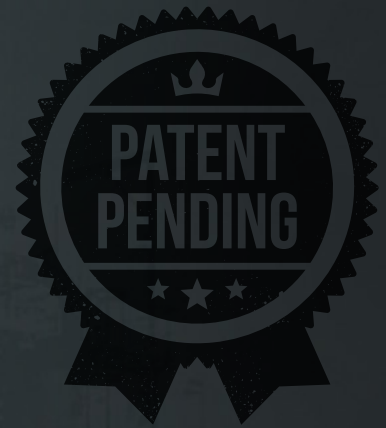
(Inside of chamber, connections, and float).

THE NON-STICK METAL TREATMENT

physically adheres to alloy and becomes permanently bonded to the surface. Metal surfaces treated become oleophobic and hydrophobic. Additionally, it is abrasion, chemical, and corrosion resistant. When applied the ultra-thin, nanoscale treatment alters the molecular surface of the metal preventing the deposition of paraffin, asphaltene, wax and other organic/non-organic oil/water-based process.

PLT has expanded the capabilities of what a magnetic level gauge can do and will excel where other gauges fail.

The ability of a material to adhere to a surface is directly related to its surface energy. If the surface energy of the treated surface does not significantly exceed the surface tension of the material applied to the surface, it becomes difficult for the material to bond (or stick) to the surface. The Non-Stick Metal Treatment reduces the surface energy of the treated surface making it difficult for this bond to occur. For example, the untreated surface free energy of stainless steel is 40-60 Dynes/cm. The NST reduces the surface free energy to 13.5 Dynes/cm. To put this further into perspective, it reduces the surface energy lower than a Teflon coating of 18 Dynes/cm.



SOME KEY FEATURES

- THIS IS NOT A COATING
- ultra-thin, invisible—will not chip or flake like traditional surface coatings
- does not alter surface appearance or function
- creates a hydrophobic, oleophobic, easy clean surface
- robust and durable
- temperature resistant (up to 430F)
- pH and chemical resistant
- abrasion resistant
- corrosion resistant
- non-flammable



Before NST

Failed due to paraffin/asphaltene build up & Chamber ID liner delaminated.



After NST

Same crude heavy paraffin/asphaltene application after 6 months of service.

When NST is combined with the dome shaped ends of the float, Mag-Gage® becomes a more efficient self-cleaning instrument that is virtually maintenance free.



MADE IN USA

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