



# Multan<sup>®</sup> PL 101<sup>™</sup>

**Oil Base Metal Forming Fluid**



## Product Description

Multan<sup>®</sup> PL 101<sup>™</sup> is a multi-functional petroleum based product for use on plain steel, coated steels, and aluminum. The product performs equally well as a mill "slushing" ship-out oil, an ancillary rust preventative spray, and a coil/blankwashing fluid. Components manufactured can include body panels, Class A surfaces or frame rails.

## Benefits

- Approved by major automotive and steel companies
- Improved coefficient of friction with coated steels
- Filterable to as low as ten micron
- Applied via most common ways including electrostatic depositor, low pressure spray, roll coater or brush.

## Characteristics

Typical concentration range: 100%

Appearance of concentrate: Amber colored fluid

Viscosity (cP @ RT): 40

Weight (lbs/gal): 7.7

Phosphorous: No

Chlorine: No

## Application

Multan<sup>®</sup> PL 101<sup>™</sup> should be applied to all surfaces of the substrate. Coating weights should be limited to 200 mg/ft<sup>2</sup> to minimize run-off and waste. In coil/blankwashing operations, an oil flow delivery rate of 3 to 5 gpm/foot strip width is recommended in conjunction with dense nylon fiber wringer rolls for coating weight control. For "slushing" oil applications, electrostatic depositors excel in delivering economical and uniform oil usage. Due to its low viscosity, Multan<sup>®</sup> PL 101<sup>™</sup> will work well in flood applications also. For ancillary rust preventative applications on stampings, castings, etc., low pressure airless spraying, brushing, or dipping can be used.

## Equipment

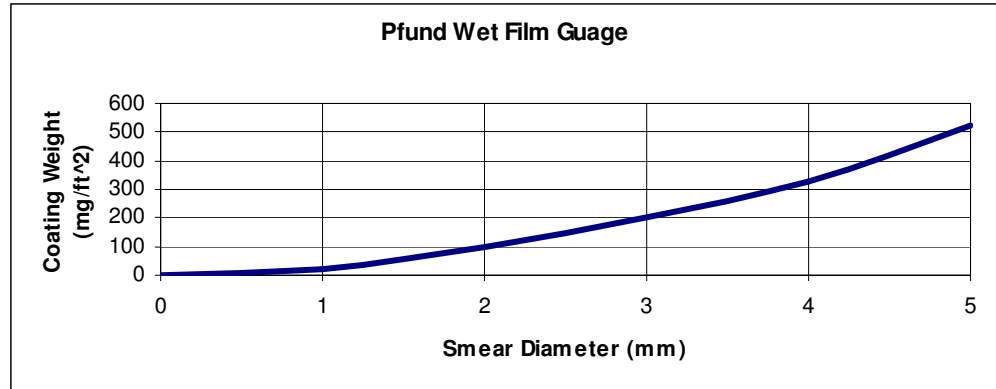
Suitable materials of construction are mild steel and petroleum and chemically resistant plastics. Hoses, couplings, and valves suitable for hydraulic oil systems are recommended. Should temperature control be required, high skin temperature direct contact elements are not to be used. Filtration membranes and elements rated as low as 10 micron nominal may be used.



## Multan® PL 101™

### Control

Since Multan® PL 101™ is used as received, there are no product adjustments, per se, required. Depending on the application, measurement of the coating weight, product viscosity, and "contamination" level may be used for process control. Your Henkel representative will recommend a control program specific to your process. For quick and easy field testing of the coating weight, we recommend the use of the Pfund Wet Film Gauge, Model #WF-PG101, from the Paul N. Gardner Co., Pompano Beach, Florida.



### Corrosion Protection

Multan® PL 101™ is formulated to meet the requirements of steel, automotive, aluminum, and fabricated metal manufacturers. Protection is extended to the wide variety of substrates used today. Additionally, the storage stability and non-staining characteristics of the coating are excellent.

### Downstream Compatibility

*Cleanability:* Multan® PL 101™ has been designed to surpass standards for removability and cleaner compatibility in automotive and similar pretreatment systems.

*Electrocoat Compatibility:* Multan® PL 101™ will exceed the crater rating obtained with competitive petroleum oils formulated for similar applications and performance levels.

*Adhesive/Welding Compatibility:* Multan® PL 101™ has been tested and field proven to be accommodating to these processes.

### Health, Environment & Safety

Please follow all applicable Federal, state and local regulations regarding proper disposal of this product. Please consult the Material Safety Data Sheet for more detail on the safe handling of this product.

### Integrated Equipment Solutions

Henkel offers a full range of equipment solutions, including refractometers, proportioners, oil coalescers, automated control systems, titration chemicals and bulk tanks.

### Additional Information

For more detail on this product, or Henkel's capabilities contact your local account representative or the phone number below.



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