



# DETEX<sup>®</sup> METAL & X-RAY

## DETECTABLE PLASTIC COMPONENTS

U.S. PATENT NO. 8,980,982 B2

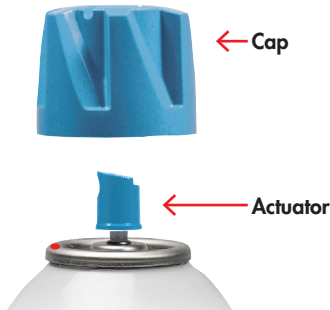
LPS<sup>®</sup> is a leading food-grade MRO chemical manufacturer that developed the innovative technology, DETEX<sup>®</sup>, to help reduce the risk of foreign object contamination during food and beverage processing. All DETEX<sup>®</sup> components on LPS<sup>®</sup> food industry products are metal and x-ray detectable.



Scan to see  
DETEX<sup>™</sup> in action!

Universal blue color for all metal and x-ray detectable plastic components easily identifies them as a non-food object.

### AEROSOL



#### ADDITIONAL AEROSOL FEATURES:

- Certified food safe container
- Dual language labeling: English and Spanish
- 2-piece aerosol can; 10% – 15% lighter than a 3-piece aerosol can

### CARTRIDGE CAP



#### ADDITIONAL GREASE CARTRIDGE FEATURES:

- Tri-lingual labeling: English, Spanish, and French
- Metal detectable aluminum seal to ensure product integrity

### GALLON CAP



#### ADDITIONAL GALLON CAP FEATURES:

- Metal detectable dual language labeling on container: English and Spanish
- Label adhesive compliant with FDA 175.105

### MARKER



## FEATURES

- All plastic components are metal and x-ray detectable and are capable of detection by most metal detection equipment.
- Reduce concerns of food product contamination and assist with HACCP requirements.
- All DETEX<sup>®</sup> plastic component ingredients are GRAS listed (Generally Recognized As Safe - FDA 21 C.F.R. Sections 177 and 178).
- LPS<sup>®</sup> food safe maintenance chemicals have prominently displayed NSF<sup>®</sup> category labeling. This ensures only food safe products are used for maintenance during processing.
- LPS<sup>®</sup> aerosol products have lithographed labels – LPS<sup>®</sup> does not use paper labels. This eliminates the threat of torn paper labels contaminating food as it is processed.
- Trigger and gallon labels are metal detectable to eliminate risk of undetected food contamination.
- Aerosol can is in compliance with the Food Safety Net Services (FSNS). FDA 21 C.F.R.175.300, 1935/2004/EC.
- Aerosol can does not contain: Heavy metals, BADGE, BFDGE, NOGE, and Bisphenol-A (BPA).

### TRIGGER SPRAYER



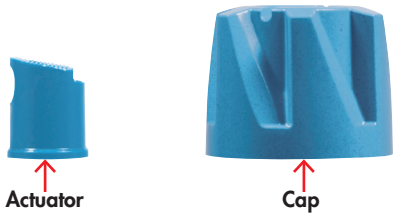
#### ADDITIONAL TRIGGER SPRAYER FEATURES:

- Adjustable spray stream to ensure proper application
- Ergonomic, 3 finger trigger to reduce finger fatigue
- Chemically resistant trigger
- Metal detectable dual language label on container: English and Spanish
- Label adhesive compliant with FDA 175.105



# DETEX<sup>®</sup> METAL & X-RAY DETECTABLE PLASTIC COMPONENTS

## FERROUS SPHERE SIZE EQUIVALENTS



	Component	Dry Mode	Wet Mode
Aerosol	Actuator	2.2 mm	2.5 mm
	Cap	3.0 mm	> 3.0 mm



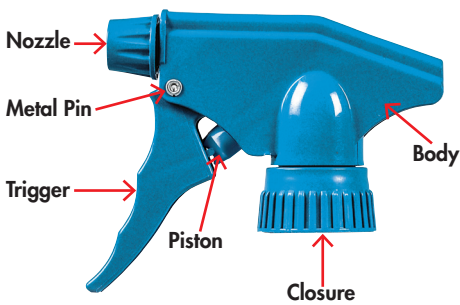
	Component	Dry Mode	Wet Mode
Cartridge Cap	Cap	> 3.0 mm	> 3.0 mm



	Component	Dry Mode	Wet Mode
Gallon Cap	Cap + Metal Liner	> 3.0 mm	> 3.0 mm
	Cap Only	> 3.0 mm	> 3.0 mm
	Liner Only	> 3.0 mm	> 3.0 mm



	Component	Dry Mode	Wet Mode
Marker	Cap	3.0 mm	> 2.5 mm
	Valve	> 3.0 mm	> 2.5 mm



	Component	Dry Mode	Wet Mode
Trigger Sprayer	Whole Sprayer *	> 3.0 mm	> 3.0 mm
	Body	> 3.0 mm	> 3.0 mm
	Trigger	> 3.0 mm	> 3.0 mm
	Closure	> 3.0 mm	> 3.0 mm
	Metal Pin	2.5 mm	> 3.0 mm
	Nozzle	2.5 mm	> 3.0 mm
	Piston	2.0 mm	2.5 mm

\* Internal trigger components are not manufactured with DETEX<sup>™</sup> technology and may not be metal or x-ray detectable.

### NOTE

- Detection limits for a particular machine depend on a variety of factors including line speed, contaminant placement and orientation, iron fortification (i.e.; flour), wet mode vs. dry mode, fragment size, aperture size, etc. It is the responsibility of the end-user to determine the detection limits of the appropriate DETEX<sup>®</sup> component for the individual line set up and for the particular food product being inspected.
- Metal and x-ray detection limits for plastic components (above) are based on whole components. Partial components may not be detectable due to detector limitations, partial component size, malfunctioning equipment and/or the type of food product undergoing processing.
- ITW Pro Brands recommends that all components be tested prior to implementation (separately and included in the processed food product) and/or consult your specific metal detector equipment manufacturer directly.
- Product shelf life, warranty, and material safety data sheets are available at [www.lpslabs.com](http://www.lpslabs.com). ITW Pro Brands is not responsible for use of this product inconsistent with its instructions and warnings.
- ITW Pro Brands is not responsible for failure to detect components due to detector limitations and/or detector malfunctions. Refer to the metal detector manufacturer's design limitations, instructions, and warnings regarding the use, limitations, and proper maintenance of the equipment.



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