

# USDA BioPreferred<sup>SM</sup> Process for Industry Investigation

## Designation Item

This section details the item that has been investigated for designation in the BioPreferred<sup>SM</sup> program.

**Item Investigated:** Metalworking Fluids

## Industry Investigation Addendum

The original Industry Investigation documents included results from the Defense Logistics Agency (DLA) ASSIST Quick Search. This document provides product information, test methods, and performance standards results from the Defense Logistics Agency Basic Search related to biobased products. This information reflects the DLA Basic Search results as of March 15, 2007.

### Defense Logistics Agency – ASSIST Database – Basic Search ([http://www.assistdocs.com/search/search\\_basic.cfm](http://www.assistdocs.com/search/search_basic.cfm))

This search lists military, federal, and commercial item specifications.

Keyword	Results	
Metalworking Fluids	A-A-59354	HYDRAULIC FLUIDS, PETROLEUM BASE, FOR MACHINE TOOLS
	A-A-59441/4	VAPOR CORROSION INHIBITORS, TYPE IV
	OO-M-340F	MILLING, GRINDING, DRILLING, AND SLOTTING ATTACHMENT
	MIL-PRF-12070E	FOG OIL
	MIL-D-45064D	DEGREASER, PORTABLE, SOLVENT TYPE, TANK IMMERSION (NO S/S DOCUMENT)
	OO-B-580D	BORING MACHINE, ENGINE CYLINDER, (PORTABLE) (S/S BY A-A-50314)
	MIL-D-80150B	DRILLING MACHINE, UPRIGHT, TURRET HEAD, SLIDING CARRIER, SIX SPINDLES, BENCH MOUNTED (NO S/S DOCUMENT)
	MIL-C-12786E	CLEANER, PRESSURE, WATER (NO S/S DOCUMENT)
	MIL-P-45805C	POLISHING MACHINE, AUTOMOTIVE CRANKSHAFT AND CAM SHAFT
	MIL-R-13495F	RELINER, BRAKE AND CLUTCH RIVETING (NO S/S DOCUMENT)
	MIL-M-45577B	MILLING MACHINE, SWIVEL HEAD, RAM TYPE, UNIVERSAL (NO S/S DOCUMENT)

	MIL-H-14253F	HONING MACHINE, HORIZONTAL, WET TYPE (NO S/S DOCUMENT)
	MIL-PRF-25017G	INHIBITOR, CORROSION/LUBRICITY IMPROVER, FUEL SOLUBLE
	MIL-HDBK-697A	TITANIUM AND TITANIUM ALLOYS
	MIL-P-80172C	PUNCHING MACHINES, METAL, SINGLE END TYPE, COMPUTER NUMERICALLY CONTROLLED (CNC) (NO S/S DOCUMENT)
	MIL-STD-1220B	ALCOHOLS AND AMINES, TECHNICAL GRADE (NO S/S DOCUMENT)
	MIL-M-80255B	MACHINING CENTERS, VERTICAL, SINGLE SPINDLE, COMPUTER NUMERICAL CONTROL (CNC) (S/S BY A-A-59232)
	MIL-HDBK-727	DESIGN GUIDANCE FOR PRODUCIBILITY
	SD-4	STATUS OF STANDARDIZATION PROJECTS (NO S/S DOCUMENT)
	MIL-HDBK-797	POLYAMIDE (NYLON) PLASTICS: PROPERTIES, PROCESSING, PERFORMANCE, AND MILITARY APPLICATIONS
	MIL-HDBK-735	MATERIAL DETERIORATION PREVENTION AND CONTROL GUIDE FOR ARMY MATERIAL, PART ONE, METALS
	MIL-HDBK-756	MANUFACTURE OF PROJECTILES, PROJECTILE COMPONENTS, AND CARTRIDGE CASES FOR ARTILLERY, TANK MAIN ARMAMENT, AND MOTORS
Metal Fluid	NFPA-T2.6.1	METHOD FOR VERIFYING THE FATIGUE AND ESTABLISHING THE BURST PRESSURE RATINGS OF THE PRESSURE CONTAINING ENVELOPE OF A METAL FLUID POWER COMPONENT
	MIL-PRF-46176B	BRAKE FLUID, SILICONE, AUTOMOTIVE, ALL-WEATHER, OPERATIONAL AND PRESERVATIVE
	A-A-52556	OIL GUN, PNEUMATIC
	MIL-STD-1570A	OIL ANALYSIS IN EQUIPMENT DESIGN, PROVISIONS FOR (NO S/S DOCUMENT)
	MIL-S-8805/85E	SWITCH, SENSITIVE, ROTARY

	(NON- SELF RETURN), 4 AMPERES, RESILIENT SEAL
MIL-PRF-8805/39G	SWITCHES, SENSITIVE, LIMIT, PLUNGER, 7 AMPERES, RESILIENT SEAL, FLUID RESISTANT
MIL-F-24724(2)	FILTER HOUSING (HYDRAULIC) AND DIFFERENTIAL PRESSURE INDICATORS, GENERAL SPECIFICATION FOR
MIL-PRF-8805/49H	SWITCHES, SENSITIVE, LIMIT, ROTARY LINKAGE LEVER (NONSELF-RETURN), RESILIENT SEAL, FLUID RESISTANT
MIL-E-1006D(1)	EMBALMING FLUID, ARTERIAL (NO S/S DOCUMENT)
MIL-DTL-85052/2C	CLAMP, LOOP, TUBE -17-7 PH CRES, 275 DEG. F, PHOSPHATE ESTER FLUID RESISTANT
A-A-59168	LAYOUT FLUID (DYE), BLUE
QPL-5504-35	FILTERS AND FILTER ELEMENTS, FLUID PRESSURE, HYDRAULIC MICRONIC TYPE
A-A-50218	RAILWAY MOTOR CARS, MAINTENANCE 8-MAN, 3000 LB LOAD CAPACITY, 56 1/2 INCH GAUGE
MIL-G-952	GUNS, SPRAY, OIL AND SOLVENT (S/S BY SAE-AMS-G-952A)
QPL-83797-16	HOSE, RUBBER, LIGHTWEIGHT, MEDIUM PRESSURE, GENERAL SPECIFICATION FOR
MIL-H-23799(1)	HOSE ASSEMBLY, METAL, TRANSFER, LIQUID OXYGEN (NO S/S DOCUMENT)
MIL-T-52340B	TOOL, VERTICAL CONNECTING: ERECTION EQUIPMENT FOR BRIDGE, FLOATING, PNEUMATIC FLOAT, CLASS 60 (NO S/S DOCUMENT)
MIL-PRF-8805/43J	SWITCHES, SENSITIVE, PLUNGER, RESILIENT SEAL, FLUID RESISTANT
MIL-PRF-8805/40H	SWITCHES, SENSITIVE, PLUNGER, RESILIENT SEAL, FLUID RESISTANT
GG-S-928B	SYRINGE, METAL
VV-C-846C	CUTTING FLUIDS: EMULSIFIABLE OILS
MIL-T-52332B	TOOL, HORIZONTAL CONNECTING: ERECTION

		EQUIPMENT FOR BRIDGE, FLOATING, PNEUMATIC FLOAT, CLASS 60 (NO S/S DOCUMENT)
	MIL-DTL-85052/3C	CLAMP, LOOP, TUBE 17-7 PH CRES, 500 DEG. F
	MIL-DTL-85052/1C	CLAMP, LOOP, TUBE 17-7 PH CRES, 275 DEG. F, FUEL AND PETROLEUM BASED HYDRAULIC FLUID RESISTANT
	MIL-F-5577B(1)	FITTING, TANK, POWERPLANT FLUID, REMOVABLE, GENERAL SPECIFICATION FOR
	MIL-S-21558A	SEAL, OIL, PLAIN OR PLAIN ENCASED
	GG-C-125	CANNULA SET, INTRAVENOUS (NO S/S DOCUMENT)
	A-A-1558A	PAINT, STENCIL
Metalworking Lubricant	A-A-59354	HYDRAULIC FLUIDS, PETROLEUM BASE, FOR MACHINE TOOLS
	A-A-59119	LAPPING MACHINES, METAL WORKING, HIGH-PRECISION, FLAT SURFACE
	MIL-P-80280	PUNCHING, ANGLE AND BAR SHEARING MACHINE, METAL, HYDRAULICALLY DRIVEN, THREE STATION TYPE (NO S/S DOCUMENT)
	MIL-P-45042F	PUNCHING, SHEARING, NOTCHING, AND COPING MACHINE, METAL, MECHANICAL DRIVE (S/S BY A-A-59422)
	MIL-E-80130C(1)	ELECTRO-EROSION MACHINE, METAL DISINTEGRATING, ELECTRIC ARC, VIBRATING HEAD, DRILL TYPE (S/S BY A-A-59286)
	MIL-G-80275	GRINDING MACHINES, CIRCULAR SAW BLADE, METAL-CUTTING (NO S/S DOCUMENT)
	MIL-F-3967E	FORMING MACHINES, SHEET METAL, ROTARY, COMBINATION FLOOR MOUNTING, MOTOR DRIVEN (NO S/S DOCUMENT)
	MIL-S-80034C	SAW, JIG, WOODWORKING
	MIL-T-80112D	THREAD AND FORM ROLLING MACHINES, ROTARY DIE, POWER DRIVEN, HORIZONTAL (S/S BY A-A-59388)
	MIL-S-80001C	SHAPERS, METAL CUTTING, VERTICAL (NO S/S DOCUMENT)

MIL-D-80039B	DRILLING MACHINE, UPRIGHT, BENCH TYPE, BOX COLUMN, SLIDING HEAD, ELECTRIC MOTOR DRIVEN, HAND FEED (NO S/S DOCUMENT)
MIL-M-80127B	MILLING MACHINES, BED TYPE, RAM OR COLUMN MOUNTED VERTICAL SPINDLE, ELECTRONIC TRACER CONTROLLED, PROFILING AND DUPLICATING (S/S BY MIL-M-80209)
MIL-F-80069D	FLARING, FLANGING, AND BEADING MACHINES, TUBE (NO S/S DOCUMENT)
MIL-D-80002E(1)	DRILLING MACHINE, UPRIGHT FLOOR TYPE, ROUND AND BOX COLUMN, SLIDING HEAD, PLAIN TABLE, POWER FEED (S/S BY A-A-59455)
MIL-F-80057C	FORMING MACHINES, SHEET METAL, CLEAT AND LOCK FORMING (NO S/S DOCUMENT)
MIL-D-80150B	DRILLING MACHINE, UPRIGHT, TURRET HEAD, SLIDING CARRIER, SIX SPINDLES, BENCH MOUNTED (NO S/S DOCUMENT)
MIL-P-80085C	POSITIONERS, WELDING, HEADSTOCK, TAILSTOCK, AND COMBINATION TYPES (NO S/S DOCUMENT)
MIL-D-80038E	DRILLING MACHINE, UPRIGHT, ROUND COLUMN, ELECTRIC MOTOR DRIVEN (S/S BY A-A-59457)
MIL-P-45805C	POLISHING MACHINE, AUTOMOTIVE CRANKSHAFT AND CAM SHAFT
MIL-S-23375D	SHAPER, METAL CUTTING, HORIZONTAL RAM, HYDRAULIC PLAIN AND UNIVERSAL TABLE (NO S/S DOCUMENT)
MIL-L-80061B	LATH, BENCH, VARIABLE SPEED, PLAIN AND TURRET, 9 INCH (S/S BY A-A-59180)
MIL-P-80186B	POSITIONERS, WELDING, ROTATING TABLE, CANTILEVER ARM DESIGN (NO S/S DOCUMENT)
MIL-P-80072C	PUNCHING MACHINE, METAL, POWER DRIVEN, SINGLE END TYPE (NO S/S DOCUMENT)
MIL-C-80071B	CUTOFF MACHINES, ABRASIVE

		DISK, METAL CUTTING, CHOP-STROKE, WET CUT, FLOOR MOUNTED (S/S BY A-A-59344)
	MIL-M-80264(3)	MACHINING CENTERS, HORIZONTAL, SINGLE SPINDLE 3 AXIS, SOFTWIRED NUMERICAL CONTROL WITH POSITIONING ROTARY TABLE (S/S BY A-A-59118)
	MIL-H-45584B	HONING MACHINE, CYLINDER RESIZING (NO S/S DOCUMENT)
	MIL-D-45064D	DEGREASER, PORTABLE, SOLVENT TYPE, TANK IMMERSION (NO S/S DOCUMENT)
	MIL-G-80025C	GRINDING MACHINES, CARBIDE TOOL BIT AND CARBIDE TOOL BIT AND CHIP BREAKER COMBINATION, ELECTRIC MOTOR DRIVEN (NO S/S DOCUMENT)
	MIL-M-45577B	MILLING MACHINE, SWIVEL HEAD, RAM TYPE, UNIVERSAL (NO S/S DOCUMENT)
	MIL-P-80136B	PLANERS, METAL CUTTING, OPENSIDE, HYDRAULIC, SHAPER PLANER TYPE (NO S/S DOCUMENT)
Biobased Metalworking Fluids	No results found	
Biobased Metalworking Lube	No results found	