

QPL-SAE-AMS-2644-3
10 May 2001
SUPERSEDING
QPL-SAE-AMS-2644-2
13 November 2000

QUALIFIED PRODUCTS LIST
OF
PRODUCTS QUALIFIED UNDER SAE AEROSPACE MATERIAL SPECIFICATION
AMS 2644
INSPECTION MATERIAL, PENETRANT

This list has been prepared for use by or for the Government in the acquisition of products covered by the subject non-Government standard and such listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest adopted issue of the applicable non-Government standard. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the supplier from compliance with the non-Government standard requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QUALIFIED PRODUCTS LIST IS THE AIR FORCE MATERIEL COMMAND, ASC/ENOI, BLDG 560, 2530 LOOP ROAD WEST, WRIGHT-PATTERSON AFB OH 45433-7101. THE QUALIFYING ACTIVITY RESPONSIBLE FOR QUALIFICATION APPROVAL IS AFRL/MLSA, BLDG 652, 2179 TWELFTH ST, STE 1, WRIGHT-PATTERSON AFB OH 45433-7809.

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AMSC N/A

FSC 6850

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 1 Method A Level 0.5	AG-1/2-FW Penetrant	AFWAL/MLS 86-84	American Gas and Chemical Co.
	970P21 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P130D Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	ZL-15B Penetrant	AFWAL/MLS 86-87	Magnaflux
	P-100 Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-900 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	FP-10 Rev D Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	HM-1 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	PWHS-20 Penetrant	WL/MLS 94-010	SPCA
WP-05 Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.	
Type 1 Method A Level 1	AG-1C-FW Penetrant	AFWAL/MLS 86-84	American Gas and Chemical Co.
	970P22 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	970P22E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P131D Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P131E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 1 Method A Level 1	P6F1 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	F-4A/1 Penetrant	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	444 Penetrant	AFWAL/MLS 87-3	Ely Chemical Company
	445 Penetrant	AFWAL/MLS 87-3	Ely Chemical Company
	ZL-19 Penetrant	AFWAL/MLS 86-87	Magnaflux
	P-110A Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	FBP-911 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	FP-901 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	FP-91B Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	444 Penetrant	AFWAL/MLS 87-3	Octagon
	445 Penetrant	AFWAL/MLS 87-3	Octagon
	HM-220 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	HM-2D Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	WB-100 Penetrant (50% conc)	WL/MLS 97-071	Sherwin, Inc.
	PWHS-24A Penetrant	WL/MLS 94-010	SPCA

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 1 Method A Level 1	WP-1 LSBP Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.
	WP-1B(M) Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.
Type 1 Method A Level 2	AG-2A-FW Penetrant	AFWAL/MLS 86-84	American Gas and Chemical Co.
	970P23 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	970P23E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	970P24 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	970P24E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P133D Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P133E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P134D Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P134E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P6F2 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	F-4A-B/1 Penetrant	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	4455 Penetrant	AFWAL/MLS 87-3	Ely Chemical Company
	4455A Penetrant	AFRL/ML- S-98-127	Ely Chemical Company

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 1 Method A Level 2	ZL-200 Penetrant	WL/MLS 97-030	Magnaflux
	ZL-60C Penetrant	AFWAL/MLS 86-87	Magnaflux
	ZL-60D Penetrant	AFWAL/MLS 86-87	Magnaflux
	ZL-61 Penetrant	AFWAL/MLS 86-87	Magnaflux
	P-120 Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	P-121 Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	P-122 Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	FBP-912 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	FP-902 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	FP-92B(M) Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	4455 Penetrant	AFWAL/MLS 87-3	Octagon
	HM-3A Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	HM-406 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	HM-412 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	HM-440 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.

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Type 1 Method A Level 2	HM-602 Penetrant	WL/MLS 97-071	Sherwin, Inc.
	WB-200 Penetrant (50% conc)	WL/MLS 97-071	Sherwin, Inc.
	PWHS-25 Penetrant	WL/MLS 94-010	SPCA
	WP-100 LSBD Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.
	WP-100H Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.
Type 1 Method A Level 3	AG-3A-FW Penetrant	AFWAL/MLS 86-84	American Gas and Chemical Co.
	970P25 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	970P25E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P135D Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P135E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P6F3 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P6F4 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	F-4A-C/1 Penetrant	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	446 Penetrant	AFWAL/MLS 87-3	Ely Chemical Company
	FWP-2 Penetrant	AFRL/MLS 00-048	Karl Deutsch

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 1 Method A Level 3	ZL-300 Penetrant	WL/MLS 97-030	Magnaflux
	ZL-67 Penetrant	AFWAL/MLS 86-87	Magnaflux
	P-130 Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	P-131 Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	P-140E Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	FBP-913 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	FP-903 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	FP-98A Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	FP-99A Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	446 Penetrant	AFWAL/MLS 87-3	Octagon
	HM-430 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	HM-604 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	HM-607 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	WP-170LS Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.
	WP-170LSBD Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.

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Type 1 Method A Level 4	AG-4C-FW Penetrant	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-4D-FW Penetrant	AFWAL/MLS 86-84	American Gas and Chemical Co.
	970P26E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P136E Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P6F5 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	F-4A-E/2 Penetrant	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	447 Penetrant	AFWAL/MLS 87-3	Ely Chemical Company
	ZL-56 Penetrant	AFWAL/MLS 86-87	Magnaflux
	P-141D Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	P-141E Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	FBP-914 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	HM-704 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	HM-707 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
WP-180LS Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.	

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 1 Method B Level 1	AG-1-FS Penetrant/ AG-FL Emulsifier	AFWAL/MLS 86-84	American Gas and Chemical Co.
	985-P11 Penetrant/ 9PR3 Emulsifier	AFWAL/MLS 86-85	Chemetall Oakite
	F-5L/1 Penetrant/ F-5E-SP/1 Emulsifier	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	ZL-1D Penetrant/ ZE-4B Emulsifier	AFWAL/MLS 86-87	Magnaflux
	P210 Penetrant/ E400 Emulsifier	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-94 Penetrant/ E-57 Emulsifier	AFWAL/MLS 86-88	Met-L-Chek
	RC-29 Penetrant/ ER-85 Emulsifier	AFWAL/MLS 86-89	Sherwin, Inc.
Type 1 Method B Level 2	AG-2-FS Penetrant/ AG-FL Emulsifier	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-2A-FS Penetrant/ AG-FL Emulsifier	AFWAL/MLS 86-84	American Gas and Chemical Co.
	985-P12 Penetrant/ 9PR3 Emulsifier	AFWAL/MLS 86-85	Chemetall Oakite
	F-5L-SP/1 Penetrant/ F-5E-SP/1 Emulsifier	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	555 Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Ely Chemical Company
	ZL-210 Penetrant/ ZE-100 Emulsifier	WL/MLS 97-030	Magnaflux
	ZL-2C Penetrant/ ZE-4B Emulsifier	AFWAL/MLS 86-87	Magnaflux

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Type 1 Method B Level 2	P220 Penetrant/ E400 Emulsifier	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-93A(M) Penetrant/ E-57 Emulsifier	AFWAL/MLS 86-88	Met-L-Chek
	555 Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Octagon
	FP-22B Rev D Penetrant/ ER-85 Emulsifier	AFWAL/MLS 86-89	Sherwin, Inc.
	RC-50 Penetrant/ ER-85 Emulsifier	AFWAL/MLS 86-89	Sherwin, Inc.
	P-31H1 Penetrant/ E-1 Emulsifier	AFWAL/MLS 86-90	Turco Products, Inc.
Type 1 Method B Level 3	AG-3D-FS Penetrant/ AG-FL Emulsifier	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-3E-FS Penetrant/ AG-FL Emulsifier	WL/MLS 97-044	American Gas and Chemical Co.
	985-P13 Penetrant/ 9PR3 Emulsifier	AFWAL/MLS 86-85	Chemetall Oakite
	F-6A/1 Penetrant/ F-5E-SP/1 Emulsifier	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	600 Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Ely Chemical Company
	667A Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Ely Chemical Company
	ZL-27A Penetrant/ ZE-4B Emulsifier	AFWAL/MLS 86-87	Magnaflux
	ZL-310 Penetrant/ ZE-100 Emulsifier	WL/MLS 97-030	Magnaflux
	P230 Penetrant/ E400 Emulsifier	AFWAL/MLS 87-46	MARKTEC Corp.

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Type 1 Method B Level 3	FP-95A(M) Penetrant/ E-57 Emulsifier	AFWAL/MLS 86-88	Met-L-Chek
	600 Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Octagon
	667A Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Octagon
	RC-65 Penetrant/ ER-85 Emulsifier	AFWAL/MLS 86-89	Sherwin, Inc.
	P-41H1 Penetrant/ E-1 Emulsifier	AFWAL/MLS 86-90	Turco Products, Inc.
Type 1 Method B Level 4	AG-4B-FS Penetrant/ AG-FL Emulsifier	AFWAL/MLS 86-84	American Gas and Chemical Co.
	985-P14 Penetrant/ 9PR3 Emulsifier	AFWAL/MLS 86-85	Chemetall Oakite
	F-6A-SP/1 Penetrant/ F-5E-SP/1 Emulsifier	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	668 Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Ely Chemical Company
	668A Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Ely Chemical Company
	ZL-37 Penetrant/ ZE-4B Emulsifier	AFWAL/MLS 86-87	Magnaflux
	ZL-410 Penetrant/ ZE-100 Emulsifier	WL/MLS 97-030	Magnaflux
	P240 Penetrant/ E400 Emulsifier	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-97A(M) Penetrant/ E-57 Emulsifier	AFWAL/MLS 86-88	Met-L-Chek
	668 Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Octagon

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Type 1 Method B Level 4	RC-77 Penetrant/ ER-85 Emulsifier	AFWAL/MLS 86-89	Sherwin, Inc.
	RC-88 Penetrant/ ER-85 Emulsifier	AFWAL/MLS 86-89	Sherwin, Inc.
	P-60H(M) Penetrant/ E-1 Emulsifier	AFWAL/MLS 86-90	Turco Products, Inc.
	P-60H2 Penetrant/ E-1 Emulsifier	AFWAL/MLS 86-90	Turco Products, Inc.
Type 1 Method C Level 1	All Type I Level 1 Method A, B and D		
Type 1 Method C Level 2	All Type I Level 2 Method A, B and D		
Type 1 Method C Level 3	All Type I Level 3 Method A, B and D		
Type 1 Method C Level 4	All Type I Level 4 Method A, B and D		
Type 1 Method C: Special Apps. Level 3	FPO Penetrant Approved with FCS Remover and FDS Developer only	AFRL/MLS 00-049	DYNAFLUX

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 1 Method D Level 1	AG-1-FS Penetrant/ AG-FH Emulsifier (20% conc)	AFWAL/MLS 86-84	American Gas and Chemical Co.
	985-P11 Penetrant/ 9PR12 Emulsifier (10% conc)	AFWAL/MLS 86-85	Chemetall Oakite
	P7F1 Penetrant/ E-1 Emulsifier (10% conc) Do Not Use With Form b Developer.	AFWAL/MLS 86-85	Chemetall Oakite
	F-5L/1 Penetrant/ F-6E-W/1 Emulsifier (20% conc)	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	ZL-1D Penetrant/ ZR-10B Emulsifier (20% conc)	AFWAL/MLS 86-87	Magnaflux
	ZL-1D Penetrant/ ZR-10C Emulsifier (20%)	AFRL/MLS 98-080	Magnaflux
	P210 Penetrant/ R500 Emulsifier (30% conc)	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-94 Penetrant/ E-58D Emulsifier (20% conc)	AFRL/MLS 98-165	Met-L-Chek
	RC-29 Penetrant/ ER-83A Emulsifier (30% conc)	AFWAL/MLS 86-89	Sherwin, Inc.
	P-21 H Penetrant/ E-41 LF Emulsifier (30% conc)	AFWAL/MLS 86-90	Turco Products, Inc.
	P-21H Penetrant/ E-41 Emulsifier (25% conc)	AFWAL/MLS 86-90	Turco Products, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 1 Method D Level 2	AG-2-FS Penetrant/ AG-FH Emulsifier (20% conc)	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-2A-FS Penetrant/ AG-FH Emulsifier (20% conc)	AFWAL/MLS 86-84	American Gas and Chemical Co.
	985-P12 Penetrant/ 9PR12 Emulsifier (10% conc)	AFWAL/MLS 86-85	Chemetall Oakite
	P7F2 Penetrant/ E-1 Emulsifier (10% conc) Do Not Use With Form b Developer.	AFWAL/MLS 86-85	Chemetall Oakite
	MG-22 Penetrant/ VE-100 Emulsifier (20% conc)	AFWAL/MLS 87-4	Cigiemme
	F-5L-SP/1 Penetrant/ F-6E-W/1 Emulsifier (20% conc)	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	555 Penetrant/ H91 Emulsifier (20% conc)	AFWAL/MLS 87-3	Ely Chemical Company
	555 Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Ely Chemical Company
	ZL-210 Penetrant/ ZR-100 Emulsifier (10% conc)	WL/MLS 97-030	Magnaflux
	ZL-2C Penetrant/ ZR-10B Emulsifier (20% conc)	AFWAL/MLS 86-87	Magnaflux
	ZL-2C Penetrant/ ZR-10C Emulsifier (20%)	AFRL/MLS 98-080	Magnaflux
	P220 Penetrant/ R500 Emulsifier (30% conc)	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-93A(M) Penetrant/ E-58D Emulsifier (20% conc)	AFRL/MLS 98-165	Met-L-Chek
	555 Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Octagon
FP-22B Rev D Penetrant/ ER-83A Emulsifier (30% conc)	AFWAL/MLS 86-89	Sherwin, Inc.	

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Type 1 Method D Level 2	RC-50 Penetrant/ ER-83A Emulsifier (30% conc)	AFWAL/MLS 86-89	Sherwin, Inc.
	PWHS-42 Penetrant/ EH-5 Emulsifier (20% conc)	WL/MLS 94-010	SPCA
	P-31 H1 Penetrant/ E-41 LF Emulsifier (30% conc)	AFWAL/MLS 86-90	Turco Products, Inc.
	P-31H1 Penetrant/ E-41 Emulsifier (20% conc)	AFWAL/MLS 86-90	Turco Products, Inc.
Type 1 Method D Level 3	AG-3D-FS Penetrant/ AG-FH Emulsifier (20% conc)	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-3E-FS Penetrant/ AG-FH Emulsifier	WL/MLS 97-044	American Gas and Chemical Co.
	985-P13 Penetrant/ 9PR12 Emulsifier (10% conc)	AFWAL/MLS 86-85	Chemetall Oakite
	P7F3 Penetrant/ E-1 Emulsifier (10% conc) Do Not Use With Form b Developer.	AFWAL/MLS 86-85	Chemetall Oakite
	MG-27 Penetrant/ VE-100 Emulsifier (20% conc)	AFWAL/MLS 87-4	Cigiemme
	MG-46(2) Penetrant/ VE-100 Emulsifier (20% conc)	AFWAL/MLS 87-4	Cigiemme
	F-6A/1 Penetrant/ F-6E-W/1 Emulsifier (20% conc)	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	600 Penetrant/ H91 Emulsifier (20% conc)	AFWAL/MLS 87-3	Ely Chemical Company
	600 Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Ely Chemical Company
	667A Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Ely Chemical Company
	ZL-27A Penetrant/ ZR-10B Emulsifier (20% conc)	AFWAL/MLS 86-87	Magnaflux

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Type 1 Method D Level 3	ZL-27A Penetrant/ ZR-10C Emulsifier (20%)	AFRL/MLS 98-080	Magnaflux
	ZL-310 Penetrant/ ZR-100 Emulsifier (10% conc)	WL/MLS 97-030	Magnaflux
	P230 Penetrant/ R500 Emulsifier (30% conc)	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-95A(M) Penetrant/ E-58D Emulsifier (20% conc)	AFRL/MLS 98-165	Met-L-Chek
	600 Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Octagon
	667A Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Octagon
	RC-65 Penetrant/ ER-83A Emulsifier (30% conc)	AFWAL/MLS 86-89	Sherwin, Inc.
	PWHS-43A Penetrant/ EH-5 Emulsifier (20% conc)	WL/MLS 94-010	SPCA
	P-41 H1 Penetrant/ E-41 LF Emulsifier (30% conc)	AFWAL/MLS 86-90	Turco Products, Inc.
P-41H1 Penetrant/ E-41 Emulsifier (20% conc)	AFWAL/MLS 86-90	Turco Products, Inc.	
Type 1 Method D Level 4	AG-4B-FS Penetrant/ AG-FH Emulsifier (20% conc)	AFWAL/MLS 86-84	American Gas and Chemical Co.
	985-P14 Penetrant/ 9PR12 Emulsifier (10% conc)	AFWAL/MLS 86-85	Chemetall Oakite
	985-P14 Penetrant/ E-1 Emulsifier (10% conc)	AFWAL/MLS 86-85	Chemetall Oakite
	MG-54(2) Penetrant/ VE-100 Emulsifier (20% conc)	AFWAL/MLS 87-3	Cigiemme
	F-6A-SP/1 Penetrant/ F-6E-W/1 Emulsifier (20% conc)	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.

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Type 1 Method D Level 4	668A Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Ely Chemical Company
	ZL-37 Penetrant/ ZR-10B Emulsifier (20% conc)	AFWAL/MLS 86-87	Magnaflux
	ZL-37 Penetrant/ ZR-10C Emulsifier (20%)	AFRL/MLS 98-080	Magnaflux
	ZL-410 Penetrant/ ZR-100 Emulsifier (10% conc)	WL/MLS 97-030	Magnaflux
	P240 Penetrant/ R500 Emulsifier (30% conc)	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-97A(M) Penetrant/ E-58D Emulsifier (20% conc)	AFRL/MLS 98-165	Met-L-Chek
	668 Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Octagon
	RC-77 Penetrant/ ER-83A Emulsifier (30% conc)	AFWAL/MLS 86-89	Sherwin, Inc.
	RC-88 Penetrant/ ER-83A Emulsifier (30% conc)	AFWAL/MLS 86-89	Sherwin, Inc.
	PWHS-47 Penetrant/ EH-5 Emulsifier (20% conc)	WL/MLS 94-010	SPCA
	AP-6 Penetrant/ AE-56 Emulsifier (20% conc)	AFRL/MLS 00-050	Taseto Co., Ltd
	P-60 H2 Penetrant/ E-41 LF Emulsifier (30% conc)	AFWAL/MLS 86-90	Turco Products, Inc.
	P-60H(M) Penetrant E-41 Emulsifier (20% conc)	AFWAL/MLS 86-90	Turco Products, Inc.
	P-60H2 Penetrant/ E-41 Emulsifier (20% conc)	AFWAL/MLS 86-90	Turco Products, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 2 Method A Level N/A	AG-1-VW Penetrant	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-1A-VW Penetrant	AFWAL/MLS 86-84	American Gas and Chemical Co.
	906 Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	907PB Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P303A Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	P6R Penetrant	AFWAL/MLS 86-85	Chemetall Oakite
	R-3B(NT)/1 Penetrant	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	200 Penetrant	AFWAL/MLS 87-3	Ely Chemical Company
	SKL-WP Penetrant	AFWAL/MLS 86-87	Magnaflux
	MP-G3T Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	VBP-300 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	VP-30 Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	VP-30A Penetrant	AFWAL/MLS 86-88	Met-L-Chek
	200 Penetrant	AFWAL/MLS 87-3	Octagon
	DP-50 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 2 Method A Level N/A	DP-51 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	DP-54 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	KO-17 Penetrant	AFWAL/MLS 86-89	Sherwin, Inc.
	P-138/V Penetrant	WL/MLS 94-010	SPCA
	WW-1A Penetrant	AFWAL/MLS 86-90	Turco Products, Inc.
Type 2 Method B Level N/A	AG-1-VS Penetrant/ AG-VL Emulsifier	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-1B-VS Penetrant/ AG-VL Emulsifier	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-1C-VS Penetrant/ AG-VL Emulsifier	AFWAL/MLS 86-84	American Gas and Chemical Co.
	996 Penetrant/ 9PR2 Emulsifier	AFWAL/MLS 86-85	Chemetall Oakite
	996PB Penetrant/ 9PR2 Emulsifier	AFWAL/MLS 86-85	Chemetall Oakite
	222 Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Ely Chemical Company
	SKL-SP Penetrant/ ZE-4B Emulsifier	AFWAL/MLS 86-87	Magnaflux
	SKL-SP1 Penetrant/ ZE-4B Emulsifier	AFWAL/MLS 86-87	Magnaflux
	VP-31A Penetrant/ E-50 Emulsifier	AFWAL/MLS 86-88	Met-L-Chek
	222 Penetrant/ L-80 Emulsifier	AFWAL/MLS 87-3	Octagon

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Type 2 Method B Level N/A	DP-40 Penetrant/ ER-85 Emulsifier	AFWAL/MLS 86-89	Sherwin, Inc.
	Dycheck Penetrant/ Dycheck Remover LS	AFWAL/MLS 86-90	Turco Products, Inc.
Type 2 Method C Level N/A	All Type II Method A, B and D plus the following:		
	P-HF Penetrant	AFWAL/MLS 87-6	DYNAFLUX
	R-1A(NT)/1 Penetrant	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd
	MP-G3T Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	MP-T Penetrant	AFWAL/MLS 87-46	MARKTEC Corp.
	FP-S Penetrant	AFRL/MLS 00-050	Taseto Co., Ltd
Type 2 Method D Level N/A	222 Penetrant/ H91 Emulsifier (20% conc)	AFWAL/MLS 87-3	Ely Chemical Company
	222 Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Ely Chemical Company
	SKL-SP Penetrant/ ZR-10B Emulsifier (20% conc)	AFWAL/MLS 86-87	Magnaflux
	SKL-SP1 Penetrant/ ZR-10B Emulsifier (20% conc)	AFWAL/MLS 86-87	Magnaflux
	222 Penetrant/ H91A Emulsifier (20% conc)	AFWAL/MLS 87-3	Octagon
	DP-40 Penetrant/ ER-83A Emulsifier (30% conc)	AFWAL/MLS 86-89	Sherwin, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Form a Type 1 Systems	AG-DD Developer	AFWAL/MLS 86-84	American Gas and Chemical Co.
	9D4A Developer	AFWAL/MLS 86-85	Chemetall Oakite
	D-1 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	D.1 Developer	AFWAL/MLS 87-4	Cigiemme
	F-5D/1 Developer	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	PD3 Developer	AFWAL/MLS 87-3	Ely Chemical Company
	PD4 Developer	AFWAL/MLS 87-3	Ely Chemical Company
	ZP-100 Developer	WL/MLS 97-030	Magnaflux
	ZP-4A Developer	AFWAL/MLS 86-87	Magnaflux
	ZP-4B Developer	AFWAL/MLS 86-87	Magnaflux
	D-700 Developer	AFWAL/MLS 87-46	MARKTEC Corp.
	D-72A Developer	AFWAL/MLS 86-88	Met-L-Chek
	PD3 Developer	AFWAL/MLS 87-3	Octagon
	PD4 Developer	AFWAL/MLS 87-3	Octagon
	D-90G Developer	AFWAL/MLS 86-89	Sherwin, Inc.
D-90G.1 Developer	AFRL/MLS 99-87	Sherwin, Inc.	

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Form a Type 1 Systems	D-99A Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	RP-1 Developer	WL/MLS 94-010	SPCA
	ADD-456 Developer	AFRL/MLS 00-050	Taseto Co., Ltd
	DD-2B Developer	AFWAL/MLS 86-90	Turco Products, Inc.
Form b Type 1 Systems	9D75 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	ZP-14A Developer	AFWAL/MLS 86-87	Magnaflux
	D-721 Developer	AFWAL/MLS 86-89	MARKTEC Corp.
	D-76B Developer	AFWAL/MLS 86-88	Met-L-Chek
	D-113G.1 Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	WS-2 Developer	AFWAL/MLS 86-90	Turco Products, Inc.
Form c Type 1 Systems	AG-WD Developer	AFWAL/MLS 86-84	American Gas and Chemical Co.
	9D76 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	F-4W-SP/1 Developer	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	LDW Developer	AFWAL/MLS 87-3	Ely Chemical Company
	ZP-5B Developer	AFWAL/MLS 86-87	Magnaflux

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Form c Type 1 Systems	D-720 Developer	AFWAL/MLS 87-46	MARKTEC Corp.
	D-78B Developer	AFWAL/MLS 86-88	Met-L-Chek
	LDW Developer	AFWAL/MLS 87-3	Octagon
	D-110A.1 Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	WD-1A Developer	AFWAL/MLS 86-90	Turco Products, Inc.
Form c Type 2 Systems	AG-WD Developer	AFWAL/MLS 86-84	American Gas and Chemical Co.
	9D76 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	F-4W-SP/1 Developer	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	LDW Developer	AFWAL/MLS 87-3	Ely Chemical Company
	ZP-5B Developer	AFWAL/MLS 86-87	Magnaflux
	D-78B Developer	AFWAL/MLS 86-88	Met-L-Chek
	LDW Developer	AFWAL/MLS 87-3	Octagon
	D-110A.1 Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	WD-1A Developer	AFWAL/MLS 86-90	Turco Products, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Form d Type 1 Systems	AG-1-DH Developer	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-DN	AFWAL/MLS 86-84	American Gas and Chemical Co.
	9D15 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	9D18 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	9D1B Developer	AFWAL/MLS 86-85	Chemetall Oakite
	NQ1 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	R-1S(NT)/1 Developer	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd
	F-4S(NT)/1 Developer	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	R-1S(NT)/1 Developer	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	LD-3 Developer	AFWAL/MLS 87-3	Ely Chemical Company
	LD-5 Developer	AFWAL/MLS 87-3	Ely Chemical Company
	LD-6 Developer	AFRL/MLS 00-51	Ely Chemical Company
	SKD-S2 Developer	AFWAL/MLS 86-87	Magnaflux
	ZP-9F Developer	AFWAL/MLS 86-87	Magnaflux
	D-701 Developer	AFWAL/MLS 87-46	MARKTEC Corp.
D-70 Developer	AFWAL/MLS 86-88	Met-L-Chek	

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Form d Type 1 Systems	LD-3 Developer	AFWAL/MLS 87-3	Octagon
	D-100 Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	D-104 Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	D-104A Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	D-106 Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	R-764/S1 Developer	WL/MLS 94-010	SPCA
	NAD Developer	AFWAL/MLS 86-90	Turco Products, Inc.
Form e Type 2 Systems	AG-1-DH Developer	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-DN Developer	AFWAL/MLS 86-84	American Gas and Chemical Co.
	9D18 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	9D1B Developer	AFWAL/MLS 86-85	Chemetall Oakite
	NQ1 Developer	AFWAL/MLS 86-85	Chemetall Oakite
	NQ1RVSL Developer	AFWAL/MLS 86-85	Chemetall Oakite
	D-F Developer	AFWAL/MLS 87-6	DYNAFLUX
	F-4S(NT)/1 Developer	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Form e Type 2 Systems	R-1S(NT)/1 Developer	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	LD-3 Developer	AFWAL/MLS 87-3	Ely Chemical Company
	LD-5 Developer	AFWAL/MLS 87-3	Ely Chemical Company
	LD-6 Developer	AFRL/MLS 00-51	Ely Chemical Company
	SKD-S2 Developer	AFWAL/MLS 86-87	Magnaflux
	ZP-9F Developer	AFWAL/MLS 86-87	Magnaflux
	D-701 Developer	AFWAL/MLS 87-46	MARKTEC Corp.
	MD-T Developer	AFWAL/MLS 87-46	MARKTEC Corp.
	D-70 Developer	AFWAL/MLS 86-88	Met-L-Chek
	LD-3 Developer	AFWAL/MLS 87-3	Octagon
	D-100 Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	D-104A Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	D-106 Developer	AFWAL/MLS 86-89	Sherwin, Inc.
	R-764/S1 Developer	WL/MLS 94-010	SPCA
	FD-S Developer	AFRL/MLS 00-050	Taseto Co., Ltd
NAD Developer	AFWAL/MLS 86-90	Turco Products, Inc.	

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Form f Type 1 Systems	FDS Developer Approved with FPO Penetrant and FCS Solvent Remover Only	AFRL/MLS 00-049	DYNAFLUX
Class 1 Solvent Removers	AG-1-RH Solvent Remover	AFWAL/MLS 86-84	American Gas and Chemical Co.
	Electronic Solv AR 631-914 Solvent Remover	WL/MLS 98-002	Western Chemical International, Inc.
	Rapid Clean HF98 Solvent Remover	WL/MLS 97-031	Western Chemical International, Inc.
Class 2 Solvent Removers	AG-1-RS Solvent Remover	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-2-RS Solvent Remover	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-3-RS Solvent Remover	AFWAL/MLS 86-84	American Gas and Chemical Co.
	AG-RS Solvent Remover	AFWAL/MLS 86-84	American Gas and Chemical Co.
	9PR5 Solvent Remover	AFWAL/MLS 86-85	Chemetall Oakite
	9PR50 Solvent Remover	AFWAL/MLS 86-85	Chemetall Oakite
	9PR50A Solvent Remover	WL/MLS 98-003	Chemetall Oakite
	9PR50B Solvent Remover	WL/MLS 98-003	Chemetall Oakite
	9PR50C Solvent Remover	WL/MLS 98-003	Chemetall Oakite
	9PR70 Solvent Remover	WL/MLS 98-003	Chemetall Oakite
9PR88 Solvent Remover	AFWAL/MLS 86-85	Chemetall Oakite	

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Class 2 Solvent Removers	PR1 Solvent Remover	AFWAL/MLS 86-85	Chemetall Oakite
	C-F Solvent Remover	AFWAL/MLS 86-86	DYNAFLUX
	DS-104 Wipe Solvent Solvent Remover	WL/MLS 94-012	Dynamold, Inc.
	DS-108 Wipe Solvent Solvent Remover	WL/MLS 94-012	Dynamold, Inc.
	Electron-NDE Dielectric Solvent Remover	WL/MLS 94-010	Ecolink, Inc.
	R-1M(NT)/1 Solvent Remover	AFWAL/MLS 86-86	Eishin Kagaku Co., Ltd.
	S-72 Solvent Remover	AFWAL/MLS 87-3	Ely Chemical Company
	S-74 Solvent Remover	AFWAL/MLS 87-3	Ely Chemical Company
	S-76 Solvent Remover	WL/MLS 97-090	Ely Chemical Company
	123 Solvent Remover	AFWAL/MLS 86-87	Magnaflux
	SKC-HF Solvent Remover	AFWAL/MLS 86-87	Magnaflux
	SKC-S Solvent Remover	AFWAL/MLS 86-87	Magnaflux
	MR-T Solvent Remover	AFWAL/MLS 87-46	MARKTEC Corp.
	MR-TM Solvent Remover	AFWAL/MLS 87-46	MARKTEC Corp.
	S-600 Solvent Remover	AFWAL/MLS 87-46	MARKTEC Corp.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Class 2 Solvent Removers	E-59 Solvent Remover	AFWAL/MLS 86-88	Met-L-Chek
	E-59A Solvent Remover	AFWAL/MLS 86-88	Met-L-Chek
	R-503 Solvent Remover	AFRL/MLS 99-85	Met-L-Chek
	R-504 Solvent Remover	AFRL/MLS 99-85	Met-L-Chek
	S-72 Solvent Remover	AFWAL/MLS 87-3	Octagon
	S-74 Solvent Remover	AFWAL/MLS 87-3	Octagon
	PF Degreaser Solvent Remover	WL/MLS 98-004	PT Technologies
	PF-141IG Solvent Remover	AFRL/MLS 99-6	PT Technologies
	PF-145HPn Solvent Remover	AFRL/MLS 99-6	PT Technologies
	Remove FD Solvent Remover	AFRL/MLS 99-86	PT Technologies
	DR-60 Solvent Remover	AFWAL/MLS 86-89	Sherwin, Inc.
	DR-62 Solvent Remover	AFWAL/MLS 86-89	Sherwin, Inc.
	DR-63 Solvent Remover	WL/MLS 98-005	Sherwin, Inc.
	KO-19 Solvent Remover	AFWAL/MLS 86-89	Sherwin, Inc.
	C-10/S1 Solvent Remover	WL/MLS 94-010	SPCA

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	QUALIFICATION REFERENCE	MANUFACTURER'S NAME
Class 2 Solvent Removers	FR-Q Solvent Remover	AFRL/MLS 00-050	Taseto Co., Ltd
	Remover No. 3 Solvent Remover	AFWAL/MLS 86-90	Turco Products, Inc.
	EPA 2000 Solvent Remover	WL/MLS 94-009	Western Chemical International, Inc.
Class 3 Solvent Remover	FCS Solvent Remover Approved with FPO Penetrant and FDS Developer Only	AFRL/MLS 00-049	DYNAFLUX

MANUFACTURER'S COMPLETE NAME AND ADDRESS

American Gas & Chemical Co., Ltd
220 Pegasus Avenue
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Chemetall GmbH, Global Headquarters
Trakehner Str. 3
60487 Frankfurt am Main
Germany

Chemetall Oakite, North American Headquarters
50 Valley Road
Berkeley Heights, NJ 07922

Chemetall Manufacturing Sites:

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921 Sherwood Drive
Lake Bluff, IL 60044
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Chemetall Oakite
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Romulus, MI 48174
United States

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Chemetall Oakite
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Chemetall Manufacturing Sites (Continued):

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Yonne
France

Chemetall Iberica SA
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Madrid
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Chemetall Asia Pte Ltd
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Chemetall Licensed Manufacturing Sites:

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Rockbrook
Dublin 16
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Chemserve Systems (Pty) Ltd.
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Transvaal
South Africa

Brent de Mexico SA de C.V.
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241 Brown Farm Road
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Dynamold, Inc.
2905 Shamrock Avenue
Fort Worth, TX 76107

Ecolink, Inc
Division of Sentry Chemical Company
1481 Rock Mountain Blvd
Stone Mountain, GA 30086-0001

Eishin Kagaku Co., Ltd
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Eishin Kagaku Plant:

Eishin Kagaku Co., Ltd
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Ely Plant:

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3624 West Lake Avenue
Glenview, IL 60025

Magnaflux Plants:

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218 E. Industrial St.
Dewitt, IA 52742

Magnaflux, a Division of ITW Ltd
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Andhrapradesh, India

ITW Imaden Industria e Comercio Ltda
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09990-020
Diadema, SP Brazil

MARKTEC Corporation
17-35, Omori Nishi
4-chrome, Ota-ku
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Met-L-Chek Plant:

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Netherlands

Octagon Process Inc.
596 River Road
Edgewater, NJ 07020-1192

PT Technologies, Inc.
P.O. Box 105052
Tucker, GA 30085-5052

Sherwin Incorporated
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South Gate, CA 90280-7402
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Sherwin Plants:

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