QUALIFICATIONS VALIDATED
ANNUALLY

QPL-13949-104
19 March 1998
SUPERSEDING
QPL-13949-103
28 April 1997

QUALIFIED PRODUCTS LIST

OF

PRODUCTS CLASSIFIED UNDER MILITARY SPECIFICATION

MIL-S-13949

SHEET, PRINTED WIRING BOARD

GENERAL SPECIFICATION FOR

This list has been prepared for use by the Government in the acquisition of products covered by MIL-S-13949. Listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed have been qualified under the requirements for the product as specified in the latest effective issue of the applicable specification. Section 1 specifies manufacturer by specification sheet. Section 2 is alphabetical and provides the manufacturer's address and the slash sheets each manufacturer is qualified for.

THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE DEFENSE SUPPLY CENTER COLUMBUS (DSCC-VQ), COLUMBUS, OH 43216-5000.

The grades and classes which are listed in this QPL reflect the highest level obtained per specification sheet. Base materials less than .0200 inch are representated in the QPL as the thinnest base material qualified. This Government designation extends from the thinnest base material shown up to, but not including, .0200 inch. One Qualification Reference Number (QRN) for this group has been assigned as shown herein. Base material thicknesses of .0200 inch and above are represented in the QPL by the thickest base material qualified. This Government designation extends from the thickest base material down to .0200 inch; one QRN has also been assigned for this group.

Metal cladding extensions are based upon the QRN for the thinnest base material. The metal cladding weight as shown on the thinnest base material extends up to the thicker cladding weights. No extension is granted for lesser weight cladding. If the manufacturer does not qualify a product in the less than .0200 inch range, the minimum cladding which is qualified is that shown for the cladding in the .0200 inch and over range. If a manufacturer plans to manufacture a product which has a cladding thickness less than that stipulated herein, a complete requalification is required.

The third letter identifer shown in the Government designator is the highest Tg range qualified. This range extends down to the lower ranges. Colored/noncolored extends both ways. QRN's for double-sided metal clad base materials and pre-pregs will be used as follows:

Base material thickness less than .0200 inch, use QRN marked "L".
Example: 13-XXX-GF-L-CH/CH-91

Base material thickness greater than or equal to .0200 inch, use the QRN marked "G".
Example: 13-XXX-GF-G-CH/CH-91

QRNs for pre-preg will reflect the group of products in which they belong.
Example: For glass reinforcement in group 2, use 13-XXX-GF-P-G2-91

Single clad base materials extend from those shown in the QPL with the minimum cladding of the single clad side being equal to or greater than the thickness shown in the QRN. The base material thickness for single clad material may be less than that shown in this QPL, but it must still meet the requirements of the customer. The third letter identifier is exactly as shown herein and the same extensions apply.

An asterisk (*) following the Government designator refers to the qualification of single-ply constructions. All other listings refer to constructions of at least two-ply reinforcement material.

Effective 1 August 1997, MIL-S-13949 has been declared "Inactive for New Design." This QPL is applicable on all acquisitions to which MIL-S-13949 is applied.

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

METAL CLAD, DOUBLE-SIDED, BASE MATERIAL TYPE DESIGNATION (REINFORCED AND NONREINFORCED):

GFN 0100 CH/C1 A 1 C

- Base material
- Nominal base thickness
- Type & Nominal weight of metal foil
- Grade of pits and dents
- Class of thickness tolerance
- Class of bow and twist

PREPREG TYPE DESIGNATION:

P GFN 1528 R 28 90 55

- Prepreg material
- Resin material
- Reinforcement style
- Flow test method
- Nominal resin flow
- Nominal gel time
- Nominal resin content

SECTION I

SPECIFICATION SHEET	COMPANY NAME PLANT LOCATION	CAGE CODE	GOVERNMENT DESIGNATOR	QUALIFICATION REFERENCE NUMBER
/2	Ditron Srl Italy	0T8G4	GBN0590CH/CHB3C	13-627-GB-G-CH/CH-92
/4	Allied Signal Laminate Systems Chandler, AZ	0N5N4	GFK0040CH/CHB1X GFK2500CH/CHB3C GFG0030CH/CHB3X GFG0590CH/CHB3C	13-254-GF-L-CH/CH-91 13-255-GF-G-CH/CH-91 13-276-GF-L-CH/CH-97* 13-277-GF-G-CH/CH-97
/4	Allied Signal Laminate Systems Pendleton, SC	0WBV1	GFK0040CH/CHB2X GFK2500CH/CHB2C GFG0020CH/CHB1X GFG0620CH/CHB1C	13-225-GF-L-CH/CH-92 13-226-GF-G-CH/CH-92 13-301-GF-L-CH/CH-96* 13-302-GF-G-CH/CH-98
/4	Allied Signal Laminate Systems Franklin, IN	0VF56	GFK2500CH/CHB1C	13-261-GF-G-CH/CH-91
/4	Allied Signal Laminate Systems Hoosick Falls,NY	0VF57	GFK0020CH/CHB2X GFK0040CH/CHB1X GFK2500CH/CHB1C GFG0020CH/CHB2X GFG0620CH/CHB2C	13-001-GF-L-CH/CH-97* 13-262-GF-L-CH/CH-91 13-263-GF-G-CH/CH-91 13-066-GF-L-CH/CH-97* 13-065-GF-G-CH/CH-97
/4	Allied Signal Laminate Systems LaCrosse, WI	98627	GFG0020CH/CHB1X GFG0040CE/CEB1X GFG2500CE/CEB1C	13-306-GF-L-CH/CH-97* 13-172-GF-L-CE/CE-93 13-279-GF-G-CE/CE-91
/4	Allied Signal Laminate Systems Europa Germany	0VF60	GFK0020CH/CHB2X GFK0040CE/CEB1X GFK2500CE/CEB1C	13-307-GF-L-CH/CH-97* 13-268-GF-L-CE/CE-91 13-269-GF-G-CE/CE-91
/4	Allied Signal Laminate Systems Tech, Ltd. Taiwan, R.O.C.	0VF59	GFK1250CH/CHB3C GFK0050CH/CHB2X	13-566-GF-G-CH/CH-92 13-203-GF-L-CH/CH-95
/4	Arlon, Inc. Rancho Cuca, CA	2J543	GFG0045CH/CHB2X GFG1250CH/CHB2C	13-773-GF-L-CH/CH-92 13-774-GF-G-CH/CH-92
/4	Asia Chemical Corp. Taiwan	0WB75	GFK0050CH/CHB2X GFK1250CH/CHB2C	13-077-GF-L-CH/CH-93 13-078-GF-G-CH/CH-93
/4	Dielektra GmbH Germany	D8088	GFK0011HQ/HQB3X GFK0310HQ/HQB3C	13-206-GF-L-HQ/HQ-97 13-207-GF-G-HQ/HQ-97
/4	Ditron Srl Italy	0T8G4	GFN0040CH/CHB3X GFN0620CH/CHB3C	13-629-GF-L-CH/CH-92 13-628-GF-G-CH/CH-92
/4	Dongguan Shengyi Copper Clad Laminate Co., Ltd. China	SB826	GFK0040CH/CHA2X GFK1250CH/CHA2C	13-049-GF-L-CH/CH-97 13-050-GF-G-CH/CH-97
/4	Doosan Electro-Materials Co., Ltd. Korea	0VJH3	GFK0590CH/CHB1C	13-259-GF-G-CH/CH-91

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/4	Electroply El Segundo, CA	17508	GFG0040CH/CHB3X GFG2500CQ/CQB3C	13-613-GF-L-CH/CH-92 13-478-GF-G-CQ/CQ-93
/4	Elite Material Co., Ltd. Taiwan		GFN0030CT/CTB2B GFN0620CT/CTB2B	13-127-GF-L-CT/CT-96 13-126-GF-G-CT/CT-96
/4	General Electric Coshocton, OH	08801	GFG0040CH/CHB3X GFG2500CH/CHB3C	13-532-GF-L-CH/CH-91 13-533-GF-G-CH/CH-91
/4	Hitachi Chemical Tokyo, Japan	S7041	GFN0040CH/CHB3X GFN2500CH/CHB3C	13-058-GF-L-CH/CH-92 13-059-GF-G-CH/CH-92
/4	Isola/ADI, Inc. Fremont, CA	0BCE1	GFG0040CQ/CQB2X GFG2500CQ/CQB2C	13-274-GS-L-CQ/CQ-92 13-275-GF-G-CQ/CQ-92
/4	Isola USA Ridgeway, SC	07WL0	GFN0070CQ/CQB2X GFN1250CQ/CQB2C	13-020-GF-L-CQ/CQ-97* 13-105-GF-G-CQ/CQ-97
/4	Isola Benelux, S.A. Belgium	B1321	GFN0610CQ/CQB3C	13-668-GF-G-CQ/CQ-92
/4	Isola Werke AG Germany	C2440	GFG0018CH/CHB2X GFG0620CH/CHB3C	13-531-GF-L-CH/CH-92 13-530-GF-G-CH/CH-92
/4	Isola Werke (UK) Ltd. Scotland	0WHD3	GFK0035CH/CHB2X GFK1250CH/CHB2C	13-U02-GF-L-CH/CH-92 13-U01-GF-G-CH/CH-92
/4	MAS Italia SpA Italy		GFN0040CH/CHB2X GFN2500CH/CHB2C	13-638-GF-L-CH/CH-92 13-639-GF-G-CH/CH-92
/4	Mass Lamination, Inc. Hatfield, PA	1HY42	GFK0040CH/CHB3X GFK1250CH/CHC3C	13-101-GF-L-CH/CH-93 13-102-GF-G-CH/CH-93
/4	Matsushita Electric Works Fukushima-Ken, Japan	S0293	GFK0039CH/CHB2X GFK0620CH/CHB3C	13-414-GF-L-CH/CH-93 13-415-GF-G-CH/CH-93
/4	Matsushita Electronic Materials, Inc. Forest Grove, OR	001G1	GFK0030HQ/HQB3X GFK0620HQ/HQB3C GFG0040HH/HHB3X	13-024-GF-L-HQ/HQ-96 13-025-GF-G-HQ/HQ-96 13-103-GF-L-HH/HH-96
/4	Mica-Ava (Far East) Industrial, Ltd. Hong Kong	0UYC0	GFN0050CH/CHB2X GFN1250C2/C2B2C	13-733-GF-L-CH/CH-92 13-732-GF-G-C2/C2-92
/4	Mitsubishi Gas Chemical Co., Inc. Tokyo, Japan	S0319	GFK0050HH/HHB2X GFK0620HE/HEB3X	13-685-GF-L-HH/HH-91 13-686-GF-G-HE/HE-91
/4	Multicon Electric Enns, Austria	S8390	GFN0040CH/CHB2X GFN2500CH/CHA3C	13-809-GF-L-CH/CH-91 13-810-GF-G-CH/CH-91
/4	NANYA Plastics Corp. Jiayih, Taiwan		GFK0040CH/CHA3X GFK1250CH/CHA3C	13-132-GF-L-CH/CH-97 13-131-GF-G-CH/CH-97
/4	NANYA Plastics Corp. Taipei, Taiwan	005B6	GFK0040CH/CHA3X GFK1250CH/CHA3C	13-132-GF-L-CH/CH-97 13-131-GF-G-CH/CH-97
/4	NELCO Fullerton, CA	0HB78	GFG0040CH/CHB3X GFG2500CH/CHB3C	13-611A-GF-L-CH/CH-91 13-611B-GF-G-CH/CH-91
/4	NELCO Walden, NY	06691	GFG0040CH/CHB2X GFG2500CH/CHB2C	13-201-GF-L-CH/CH-91 13-202-GF-G-CH/CH-91
/4	NELCO S.A. France	0PCD2	GFG0020CH/CHB3X GFG0040CH/CHB3X GFG1250CH/CHB3C	13-008-GF-L-CH/CH-97* 13-049-GF-L-CH/CH-95 13-003-GF-G-CH/CH-93
/4	NELCO UK United Kingdom	06691	GFK00018Q/CQB3X GFK1250CQ/CQB3C	13-U31-GF-L-CQ/CQ-97* 13-U23-GF-G-CQ/CQ-92
/4	NPL Taiwan Company, Ltd. Taiwan	0W5H9	GFN0039CH/CHB3X GFN0620CH/CHB3C	13-461-GF-L-CH/CH-93 13-462-GF-G-CH/CH-93
/4	NVF Company Kennet Square, PA	58610	GFN0060CH/CHB2X GFN0620CH/CHB2C	13-821-GF-L-CH/CH-93 13-820-GF-G-CH/CH-93

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/4	Neltec, Inc. Tempe, AZ	0TFT1	GFG0040CH/CHB3X GFG1250C1/C1B3C	13-173-GF-L-CH/CH-93 13-174-GF-G-C1/C1-93
/4	Perstorp Do Brazil Sao Paulo, Brazil		GFN2500CH/CHA2C	13-049-GF-G-CH/CH-92
/4	PIAD SpA Italy	0T276	GFG0040CE/CEB2X GFG2500CE/CEB3C GFM0040CE/CEB2X GFM2500CE/CEB3C GFN0040CH/CHB2X GFN2500CH/CHB3C	13-094-GF-L-CE/CE-97 13-096-GF-G-CE/CE-97 13-093-GF-L-CE/CE-97 13-095-GF-G-CE/CE-97 13-633-GF-L-CH/CH-92 13-634-GF-G-CH/CH-92
/4	Polyclad Santa Ana, CA	40334	GFG0040CT/CTB2X GFG2500CT/CTB2C GFG0050CT/CHB2X	13-345-GF-L-CT/CT-91 13-346-GF-G-CT/CT-91 13-103-GF-L-CT/CT-97*
/4	Polyclad Millbury, MA	0U674	GFG0040CT/CTB2X GFG0040CT/CTB2X GFG2500CT/CTB2C	13-102-GF-L-CT/CT-91 13-102-GF-L-CT/CT-97* 13-105-GF-G-CT/CT-91
/4	Polyclad Franklin, NH	0WYB9	GFG0040CT/CTB2X GFG0040CT/CTB2X GFG2500CT/CTB2C	13-314-GF-L-CT/CT-96* 13-351-GF-L-CT/CT-91 13-352-GF-G-CT/CT-91
/4	Polyclad Europe, SA Cedex, France	FA3D0	GFN0040CH/CHA2X GFN2500CH/CHA2C	13-415-GF-L-CH/CH-91 13-414-GF-G-CH/CH-91
/4	Polyclad Europe AB Sweden	 S3512	GFN0040CH/CHA2X GFN2500CH/CHA2C	13-337-GF-L-CH/CH-91 13-336-GF-G-CH/CH-91
/4	Precision Laminates Danbury, CT	50970	GFN0040CH/CHB2X GFN2500CH/D1B3C	13-577-GF-L-CH/CH-91 13-578-GF-G-CH/D1-91
/4	QLP Laminates Anaheim, CA	0TKK1	GFK0040CH/CHB3X GFK2500CH/CHB3C	13-712-GF-L-CH/CH-91 13-713-GF-G-CH/CH-91
/4	Synthane-Taylor La Verne, CA	26663	GFK0040CH/CHB3X GFK0900CH/CHB3C GFG0040CH/CHB3X GFG0900CH/CHB3C	13-402-GF-L-CH/CH-93 13-403-GF-G-CH/CH-93 13-148-GF-L-CH/CH-97 13-148-GF-G-CH/CH-97
/5	Allied Signal Laminate Systems Pendleton, SC	0WBV1	GHN0040CH/CHB2X GHN2500CH/CHB2C	13-227-GH-L-CH/CH-92 13-228-GH-G-CH/CH-92
/5	Allied Signal Laminate Systems LaCrosse, WI	98627	GHN0035CH/CHB1X GHN2500CH/CHB1C	13-696-GH-L-CH/CH-90 13-695-GH-G-CH/CH-90
/5	Electroply, Inc. El Segundo, CA	17508	GHN0050CH/CHB3X GHN1250CH/CHB3C	13-317-GF-L-CH/CH-95 13-318-GH-G-CH/CH-95
/5	Isola/ADI Fremont, CA	OBCE1	GHP0040HH/HHB3X GHP2500HH/HHB3C	13-772-GH-L-HH/HH-90 13-773-GH-G-HH/HH-90
/5	Mass Lamination, Inc. Hatfield, PA	1HY42	GHN0040CH/CHB3X GHN1250CH/CHC3C	13-106-GF-L-CH/CH-93 13-107-GF-G-CH/CH-93
/5	Precision Laminates Danbury, CT	50970	GHN2500C1/C1B2C	13-580-GH-G-C1/C1-91
/5	QLP Laminates Anaheim, CA	0TKK1	GHN0120CH/CHB2X GHN0590CH/CHB2C	13-571-GH-L-CH/CH-91 13-572-GH-G-CH/CH-91
/6	Arlon, Inc. Bear, DE	52869	GPK2500CH/CHB4C	13-089R-GP-G-CH/CH-91
/6	Rogers Corp. Chandler, AZ	65028	GPN0040CE/CEB4X GPN7500CE/CEB4C	13-163R-GP-L-CE/CE-91 13-162R-GP-G-CE/CE-91
/7	Arlon, Inc. Bear, DE	52869	GRK2500CH/CHB4C	13-089-GR-G-CH/CH-91
/7	Rogers Corp. Chandler, AZ	65028	GRN0040CE/CEB4X GRN7500CE/CEB4C	13-163-GR-L-CE/CE-91 13-162-GR-G-CE/CE-91

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/8	Arlon, Inc. Bear, DE	52869	GTN0040CH/CHB4X GTN2500CH/CHB4C	13-384Y-GT-L-CH/CH-91 13-385Y-GT-G-CH/CH-91
/8	Matsushita Electric Works Fukushima-Ken, Japan	S0293	GTN0040CQ/CQB4X GTN2500CQ/CQB4C	13-411Y-GT-L-CQ/CQ-91 13-412Y-GT-G-CQ/CQ-91
/8	Taconic Plastics Petersburg, NY	59688	GTN0040CH/CHB4X GTN2500CH/CHB4C	13-053Y-GT-L-CH/CH-92 13-054Y-GT-G-CH/CH-92
/9	ARLON, Inc. Bear, DE	52869	GXN0040CH/CHB4X GXN2500CH/CHB4C	13-384Y-GX-L-CH/CH-91 13-385Y-GX-G-CH/CH-91
/9	Chukoh Industries, Ltd. Tokyo, Japan		GXN0620C1/C1A4C	13-176-GX-G-C1/C1-91
/9	Matsushita Electric Works Fukushima-Ken, Japan	S0293	GXN0040CQ/CQB4X GXN2500CQ/CQB4C	13-411Y-GX-L-CQ/CQ-91 13-412Y-GX-G-CQ/CQ-91
/9	Rogers Corp. Chandler, AZ	65028	GXN0040CH/CHB4X GXN2500CH/CHB4C	13-165-GX-L-CH/CH-91 13-164-GX-G-CH/CH-91
/9	Taconic Plastics Petersburg, NY	59688	GXN0040CH/CHB4X GXN2500CH/CHB4C	13-053Y-GX-L-CH/CH-92 13-054Y-GX-G-CH/CH-92
/10	Allied Signal Laminate Systems Pendleton, SC	0WBV1	GIL0040CH/CHB2X GIL2500CH/CHB2C	13-210-GI-L-CH/CH-92 13-211-GI-G-CH/CH-92
/10	Allied Signal Laminate Systems LaCrosse, WI	98627	GIL0040CQ/CQB1X GIL2500CQ/CQB1C	13-280-GI-L-CQ/CQ-91 13-281-GI-G-CQ/CQ-91
/10	Arlon, Inc. Rancho Cucamonga, CA	2J543	GIL0040CH/CHB2X GIL2500CH/CHB2C	13-084-GI-L-CH/CH-91 13-085-GI-G-CH/CH-91
/10	Hitachi Chemical Tokyo, Japan	S7041	GIJ0038CH/CHB3X GIJ2500CH/CHB3C	13-060-GI-L-CH/CH-91 13-061-GI-G-CH/CH-91
/10	Isola/ADI Fremont, CA	0BCE1	GIL0040CH/CHB2X GIL2500CH/CHB2C	13-279-GI-L-CH/CH-92 13-280-GI-G-CH/CH-92
/10	Isola Werke AG Germany	C2440	GIN0016CH/CHB2X GIN0590CH/CHB2C	13-529-GI-L-CH/CH-92 13-528-GI-G-CH/CH-92
/10	Matsushita Electric Works Osaka, Japan	30293	GIJ0039CQ/CQB2X GIJ0620CH/CHB3C	13-419-GI-L-CQ/CQ-93 13-420-GI-G-CH/CH-93
/10	NELCO Fullerton, CA	0HB78	GIL0040CH/CHB3X GIL2500CH/CHB3C	13-615A-GI-L-CH/CH-91 13-615B-GI-G-CH/CH-91
/10	NELCO Waldon, NY	06691	GIL0040CH/CHB2X GIL2500CH/CHB2C	13-203-GI-L-CH/CH-91 13-204-GI-G-CH/CH-91
/10	Neltec, Inc. Tempe, AZ	0TFT1	GIL0040CH/CHB3X GIL1250C1/C1B3C	13-494-GI-L-CH/CH-92 13-495-GI-G-C1/C1-92
/10	Polyclad Santa Ana, CA	40334	GIN0040CT/CTB2X GIN2500CT/CTB2C	13-366-GI-L-CT/CT-91 13-367-GI-G-CT/CT-91
/10	Polyclad Millbury, MA	0U674	GINOO4OCT/CTB2X GIN2500CT/CTB2C	13-361-GI-L-CT/CT-91 13-362-GI-G-CT/CT-91
/10	Polyclad Franklin, NH	0WYB9	GIN0040CT/CTB2X GIN2500CT/CTB2C	13-051-GI-L-CT/CT-91 13-052-GI-G-CT/CT-91
/11	Allied Signal Laminate Systems Pendleton, SC	0WBV1	PGEN1080D25XX65	13-236-GE-P-G1-92
/11	FiberCote Ind. Waterbury, CT	57929	PGEN1080D350262	13-136-GE-P-G1-91
/11	QLP Laminates Anaheim, CA	0TKK1	PGEN1080R02XX63	13-667-GE-P-G1-91

SPECIFICATION SHEET	COMPANY NAME PLANT LOCATION	CAGE CODE	GOVERNMENT DESIGNATOR	QUALIFICATION REFERENCE NUMBER
/12	Allied Signal Laminate Systems Chandler, AZ	0N5N4	PGFK1080R401665 PGFK2116R281652 PGFK7628R251645 PGFG1080D251365 PGFG2116D421356 PGFG7628D671342	13-256-GF-P-G1-91 13-257-GF-P-G2-91 13-258-GF-P-G3-91 13-117-GF-P-G1-96 13-118-GF-P-G2-96 13-119-GF-P-G3-96
/12	Allied Signal Laminate Systems Hoosick Falls, NY	0VF57	PGFK1080R401665 PGFK2116R281652 PGFK7628R251645 PGFG1080R431365 PGFG2116R351156 PGFG7628R221342	13-264-GF-P-G1-91 13-265-GF-P-G2-91 13-266-GF-P-G3-91 13-067-GF-P-G1-97 13-068-GF-P-G2-97 13-069-GF-P-G3-97
/12	Allied Signal Laminate Systems Pendleton, SC	0WBV1	PGFN1080D25XX65 PGFN2116D43XX57 PGFN7628D67XX43 PGFG1080D251165 PGFG2116D401156 PGFG7628D651242	13-222-GF-P-G1-92 13-223-GF-P-G2-92 13-224-GF-P-G3-92 13-303-GF-P-G1-96 13-304-GP-P-G2-96 13-305-GF-P-G3-96
/12	Allied Signal Laminate Systems LaCrosse, WI	98627	PGFG1080R431365 PGFG2116R351356 PGFG7628R221342	13-068-GF-P-G1-95 13-069-GF-P-G2-95 13-070-GF-P-G3-95
/12	Allied Signal Laminate Systems Europa Germany	0VF60	PGFK1080R401665 PGFK2116R281652 PGFK7628R251645	13-272-GF-P-G1-91 13-273-GF-P-G2-91 13-274-GF-P-G3-91
/12	Allied Signal Laminate Systems Tech, Ltd. Taiwan, R.O.C.	0VF59	PGFK1080R371665 PGFK2116R301653 PGFK7628R231642	13-200-GF-P-G1-95 13-201-GF-P-G2-95 13-202-GF-P-G3-95
/12	Arlon, Inc. Rancho Cucamonga, CA	2J543	PGFG1080R401665 PGFG2116R300650 PGFG7628R200642	13-775-GF-P-G1-92 13-776-GF-P-G2-92 13-777-GF-P-G3-92
/12	Asia Chemical Corp. Taiwan	0WB75	PGFK1080R38XX62 PGFK2116R32XX53 PGFK7628R24XX43	13-081-GF-P-G1-93 13-080-GF-P-G2-93 13-079-GF-P-G3-93
/12	Dielektra GmbH Germany	D8088	PGFN1080R371762 PGFN2125R301555 PGFN7628R211442	13-208-GF-P-G1-97 13-209-GF-P-G2-97 13-210-GF-P-G3-97
/12	Ditron Srl Italy	0T8G4	PGFN1080R351165 PGFN2112R281155 PGFN7628R231145	13-624-GF-P-G1-92 13-625-GF-P-G2-92 13-626-GF-P-G3-92
/12	Dongguan Shengyi Copper Clad Laminate Co., Ltd. China	SB826	PGFK1080R371764 PGFK2116R301752 PGFK7628R191743	13-048-GF-P-G1-97 13-047-GF-P-G2-97 13-046-GF-P-G3-97
/12	Electroply El Segundo, CA	17508	PGFG1080R381960 PGFG2313R301950 PGFG7628R181240	13-614-GF-P-G1-92 13-615-GF-P-G2-92 13-616-GF-P-G3-92
/12	Elite Material Co., Ltd. Taiwan		PGFK1080R351561 PGFK2116R281551 PGFK7628R231543	13-130-GF-P-G1-96 13-129-GF-P-G2-96 13-128-GF-P-G3-96
/12	FiberCote Industries Waterbury, CT	57929	PGFN7628R130842	13-137-GF-P-G3-91
/12	General Electric Coshocton, OH	08801	PGFG1080R402165 PGFG2313R302155 PGFG7628R252142	13-534A-GF-P-G1-91 13-534B-GF-P-G2-91 13-534C-GF-P-G3-91
/12	Hitachi Chemical Tokyo, Japan	S7041	PGFN1080R346263 PGFN2116R275852 PGFN7628R216742	13-062-GF-P-G1-92 13-063-GF-P-G2-92 13-064-GF-P-G3-92

SPECIFICATION SHEET	COMPANY NAME PLANT LOCATION	CAGE CODE	GOVERNMENT DESIGNATOR	QUALIFICATION REFERENCE NUMBER
/12	Isola/ADI, Inc. Fremont, CA	0BCE1	PGFG1080R410665 PGFG2116R300650 PGFG7628R200642	13-276-GF-P-G1-92 13-277-GF-P-G2-92 13-278-GF-P-G3-92
/12	Isola USA Ridgeway, SC	07WL0	PGFN1080R410464 PGFN2116R321454 PGFN7628R291348	13-021-GF-P-G1-97 13-023-GF-P-G2-97 13-106-GF-P-G3-97
/12	Isola Werke AG Germany	C2440	PGFG1080D381362 PGFG2116D281548 PGFG7628D281545	13-540-GF-P-G1-92 13-541-GF-P-G2-92 13-542-GF-P-G3-92
/12	Isola Werke (UK) Ltd. Scotland	0WDD3	PGFK1080R391552 PGFK2116R281548 PGFK7628R251545	13-U07-GF-P-G1-92 13-U06-GF-P-G2-92 13-U05-GF-P-G3-92
/12	J.A. Labs Van Nuys, CA	0D3H4	PGFN2113R301054	13-131-GF-P-G2-95
/12	MAS Italia SpA Italy		PGFN1080R291260 PGFN2116R221350 PGFN7628R101343	13-635-GF-P-G1-92 13-636-GF-P-G2-92 13-637-GF-P-G3-92
/12	Mass Lamination, Inc. Hatfield, PA	1HY42	PGFK1080R401663 PGFK2112R301657 PGFK7628R201640	13-103-GF-P-G1-93 13-104-GF-P-G2-93 13-105-GF-P-G3-93
/12	Matsushita Electric Works Fukushima-Ken, Japan	S0293	PGFK1080R45XX70 PGFK2116R35XX55 PGFK7628R21XX43	13-416-GF-P-G1-93 13-417-GF-P-G2-93 13-418-GF-P-G3-93
/12	Matsushita Electronic Materials, Inc. Forest Grove, OR	001G1	PGFK1080R451670 PGFK2116R351655 PGFK7628R211643	13-026-GF-P-G1-96 13-027-GF-P-G2-96 13-028-GF-P-G3-96
/12	Mica-Ava (Far East) Industrial, Ltd. Hong Kong	0UYC0	PGFN1080R351465 PGFN2116R251452 PGFN7628R231443	13-736-GF-P-G1-92 13-735-GF-P-G2-92 13-734-GF-P-G3-92
/12	Mitsubishi Gas Chemical Co., Inc. Tokyo, Japan	S0319	PGFN1080R401865 PGFN2116R351850	13-687-GF-P-G1-91 13-688-GF-P-G2-91
/12	Multicon Enns, Austria	S8390	PGFK1080R371762 PGFK2116R231447 PGFK7628R221442	13-812-GF-P-G1-91 13-813-GF-P-G2-91 13-811-GF-P-G3-91
/12	NANYA Plastics Jiahih, Taiwan	005B6	PGFK1080R351462 PGFK2116R251450 PGFK7628R201443	13-135-GF-P-G1-97 13-133-GF-P-G2-97 13-134-GF-P-G3-97
/12	NANYA Plastics Taipei, Taiwan	005B6	PGFK1080R351462 PGFK2116R251450 PGFK7628R201443	13-135-GF-P-G1-97 13-133-GF-P-G2-97 13-134-GF-P-G3-97
/12	NELCO Tempe, AZ	0K4X0	PGFK1080D261263 PGFK2113D341257 PGFK7628D671242	13-404-GF-P-G1-93 13-405-GF-P-G2-93 13-406-GF-P-G3-93
/12	NELCO Fullerton, CA	0HB78	PGFG1080R401865 PGFG2116R301756 PGFG7628R201743	13-612A-GF-P-G1-91 13-612B-GF-P-G2-91 13-612C-GF-P-G3-91
/12	NELCO Walden, NY	06691	PGFG1080D241265 PGFG2116D431258 PGFG7628D671243	13-216-GF-P-G1-91 13-218-GF-P-G2-91 13-220-GF-P-G3-91
/12	NELCO UK United Kingdom		PGFK1080R351261 PGFK2116R331255 PGFK7628R201240	13-U16-GF-P-G1-92 13-U17-GF-P-G2-92 13-U18-GF-P-G3-92
/12	NELCO France	0PCD2	PGFG1080D231165 PGFG2113D301158 PGFG7628D651143	13-004-GF-P-G1-93 13-005-GF-P-G2-93 13-006-GF-P-G3-93

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/12	NPL Taiwan Company, Ltd. Taiwan	0W5H9	PGFN1080R451670 PGFN2116R351655 PGFN7628R211643	13-458-GF-P-G1-93 13-459-GF-P-G2-93 13-460-GF-P-G3-93
/12	NVF Company Kennett Square, PA	58610	PGFN1080R451464 PGFN2116R351454 PGFN7628R201640	13-822-GF-P-G1-93 13-823-GF-P-G2-93 13-824-GF-P-G3-93
/12	Neltec, Inc. Tempe, AZ	0TFT1	PGFG1080D231565 PGFG2116D541556 PGFG7628D671543	13-175-GF-P-G1-93 13-176-GF-P-G2-93 13-177-GF-P-G3-93
/12	PIAD SpA Italy	0T276	PGFM1080R301258 PGFM2116R301255 PGFM7628R141240 PGFG1080R301258 PGFG2116R301255 PGFG7628R141240 PGFN1080R381562 PGFN2116R301555 PGFN7628R251545	13-087-GF-P-G1-97 13-088-GF-P-G2-97 13-089-GF-P-G3-97 13-090-GF-P-G1-97 13-091-GF-P-G2-97 13-092-GF-P-G3-97 13-630-GF-P-G1-92 13-631-GF-P-G2-92 13-632-GF-P-G3-92
/12	Polyclad Santa Ana, CA	40334	PGFG1080R371465 PGFG2116R341457 PGFG7628R221444	13-368-GF-P-G1-91 13-369-GF-P-G2-91 13-370-GF-P-G3-91
/12	Polyclad Millbury, MA	0U674	PGFG2116R211558 PGFG7628R221542	13-098-GF-P-G2-91 13-099-GF-P-G3-91
/12	Polyclad Franklin, NH	0WYB9	PGFG1080R371465 PGFG2116R341457 PGFG7628R221444	13-371-GF-P-G1-91 13-372-GF-P-G2-91 13-373-GF-P-G3-91
/12	Polyclad Europe, SA Cedex, France	FA3D0	PGFN1080R411465 PGFN2116R311453 PGFN7628R221444	13-416A-GF-P-G1-91 13-416B-GF-P-G2-91 13-416C-GF-P-G3-91
/12	Polyclad Europe, AB Sweden	S3512	PGFN1080R361260 PGFN2125R301253 PGFN7628R221242	13-338-GF-P-G1-91 13-339-GF-P-G2-91 13-340-GF-P-G3-P1
/12	QLP Laminates Anaheim, CA	0TKK1	PGFT1080R505065 PGFT2116R305051 PGFT7628R253542	13-705-GF-P-G1-91 13-706-GF-P-G2-91 13-100-GF-P-G3-91
/12	Synthane-Taylor La Verne, CA	26663	PGFK1080R421665 PGFK2113R371657 PGFK7628R221642 PGFG1080R421665 PGFG2113R371657 PGFG7628R221642	13-399-GF-P-G1-93 13-400-GF-P-G2-93 13-401-GF-P-G3-93 13-145-GF-P-G1-97 13-146-GF-P-G2-97 13-147-GF-P-G3-97
/13	Allied Signal Laminate Systems Pendleton, SC	0WBV1	PGIN1080D24XX62 PGIN2116D41XX40 PGIN7628D65XX41	13-207-GI-P-G1-92 13-208-GI-P-G2-92 13-209-GI-P-G3-92
/13	Allied Signal Laminate Systems LaCrosse, WI	98627	PGIN1080R35XX60 PGIN2116R26XX48 PGIN7628R23XX48	13-286-GI-P-G1-91 13-287-GI-P-G2-91 13-288-GI-P-G3-91
/13	Arlon Rancho Cucamonga, CA	2J543	PGIL1080R43XX65 PGIL2116R30XX50 PGIL7628R20XX40	13-077-GI-P-G1-91 13-078-GI-P-G2-91 13-079-GI-P-G3-91
/13	Hitachi Chemical Tokyo, Japan	S7041	PGIJ1080R42XX65 PGIJ2116R32XX55 PGIJ7628R24XX48	13-065-GI-P-G1-92 13-066-GI-P-G2-92 13-067-GI-P-G3-92
/13	Isola/ADI Fremont, CA	0BCE1	PGIL1080R38XX61 PGIL2116R30XX51 PGIL7628R20XX40	13-281-GI-P-G1-92 13-282-GI-P-G2-92 13-283-GI-P-G3-92
/13	Isola Werke AG Germany	C2440	PGIN1080R23XX60 PGIN2116R24XX50 PGIN7628R21XX43	13-537-GI-P-G1-92 13-538-GI-P-G2-92 13-539-GI-P-G3-92

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SPECIFICATION SHEET	COMPANY NAME PLANT LOCATION	CAGE CODE	GOVERNMENT DESIGNATOR	QUALIFICATION REFERENCE NUMBER
/13	Matsushita Electric Works Osaka, Japan	S0293	PGIJ1080R47XX70 PGIJ2116R30XX51	13-421-GI-P-G1-93 13-422-GI-P-G2-93
/13	NELCO Fullerton, CA	0HB78	PGIL1080R33XX63 PGIL2116R30XX54 PGIL7628R68XX43	13-616A-GI-P-G1-91 13-616B-GI-P-G2-91 13-616C-GI-P-G3-91
/13	NELCO Walden, NY	06691	PGIL1080D23XX63 PGIL2116D42XX54 PGIL7628D68XX43	13-228-GI-P-G1-91 13-230-GI-P-G2-91 13-232-GI-P-G3-91
/13	Neltec, Inc. Tempe, AZ	0TFT1	PGIL1080D23XX63 PGIL2116D42XX54 PGIL7628D68XX43	13-496-GI-P-G1-92 13-497-GI-P-G2-92 13-498-GI-P-G3-92
/13	Polyclad Franklin, NH	0WYB9	PGIN1080R46XX68 PGIN2113R34XX57 PGIN7628R20XX44	13-358-GI-P-G1-91 13-359-GI-P-G2-91 13-360-GI-P-G3-91
/14	Arlon, Inc. Bear, DE	52869	GYN0040CH/CHB4X GYN2500CH/CHB4C	13-384-GY-L-CH/CH-91 13-385-GY-G-CH/CH-91
/14	Matsushita Electric Works Osaka, Japan	S0293	GYN0108CQ/CQB4X GYN0310CQ/CQB4C	13-423-GY-L-CQ/CQ-93 13-424-GY-G-CQ/CQ-93
/14	Taconic Plastics Petersburg, NY	59688	GYN0040CH/CHB4X GYN2500CH/CHB4C	13-053-GY-L-CH/CH-92 13-054-GY-G-CH/CH-92
/15	Arlon Rancho Cucamonga, CA	2J543	AFK0020HH/HHB2X AFK2500HH/HHB2C AFG0310HH/HHB2C	13-086-AF-L-HH/HH-91 13-087-AF-G-HH/HH-91 13-279-AF-G-HH/HH-97
/15	General Electric Coshocton, OH	08801	AFN0020HH/HHB3X AFN0310HH/HHB3C	13-530-AF-L-HH/HH-91 13-531-AF-G-HH/HH-91
/16	Arlon Rancho Cucamonga, CA	2J543	PAFK0120R321360 PAFG3500R300962	13-080-AF-P-A1-91 13-280-AF-P-A1-97
/16	General Electric Coshocton, OH	08801	PAFN0120R30XX60	13-535-AF-P-A1-91
/16	Allied Signal Laminate Systems LaCrosse, WI	98627	PAFN0120R350765	13-819-AF-P-A1-91
/18	Allied Signal Laminate Systems Pendleton, SC	0WBV1	PGHN1080D24XX66 PGHN2113D41XX58 PGHN7628D65XX43	13-229-GH-P-G1-92 13-230-GH-P-G2-92 13-231-GH-P-G3-92
/18	Allied Signal Laminate Systems LaCrosse, WI	98627	PGHN1080R431066 PGHN2113R361056 PGHN7628R221043	13-874-GH-P-G1-92 13-875-GH-P-G2-92 13-074-GH-P-G3-93
/18	Electroply El Segundo, CA	17508	PGHN1080D25XX67 PGHN2113D33XX57 PGHN7628D68XX45	13-314-GH-P-G1-95 13-315-GH-P-G2-95 13-316-GH-P-G3-95
/18	Isola/ADI Fremont, CA	OBCE1	PGHP1080R471164 PGHP2116R381158 PGHP7628R181158	13-776-GH-P-G1-90 13-775-GH-P-G2-90 13-774-GH-P-G3-90
/18	Mass Lamination, Inc. Hatfield, PA	1HY42	PGHN1080R401663 PGHN2112R301657 PGHN7628R201640	13-108-GH-P-G1-93 13-109-GH-P-G2-93 13-110-GH-P-G3-93
/18	QLP Laminates Anaheim, CA	0TKK1	PGHN1080R401366 PGHN2113R351357 PGHN7628R201343	13-568A-GH-P-G1-91 13-568B-GH-P-G2-91 13-568C-GH-P-G3-91
/19	Arlon Rancho Cucamonga, CA	2J543	QIL0040CH/CHB2X QIL2500CH/CHB2C	13-081-QI-L-CH/CH-91 13-082-QI-G-CH/CH-91
/20	Arlon Rancho Cucamonga, CA	2J543	PQIL503R30XX54	13-083-QI-P-Q1-91

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/22	Arlon Rancho Cucamonga, CA	2J543	BFG0030CH/CHB2X BFG0310CH/CHB2C	13-412-BF-L-CH/CH-93 13-411-BF-G-CH/CH-93
/22	Isola Werke AG Germany	C2440	BFG0012CH/CHB3X	13-328-BF-L-CH/CH-95
/22	Shin-Kobe Electric Machinery Japan	0UTV0	BFG0033CH/CHB3X BFG0630CH/CHB3C	13-089-BF-L-CH/CH-93 13-090-BF-G-CH/CH-93
/23	Arlon Rancho Cucamonga, CA	2J543	PBFGNA16RXXXX50	13-413-BF-P-NA16-93
/23	Isola Werke AG Germany	C2440	PBFGNA20D24XX55	13-329-BF-P-NAQ20-95
/23	Shin-Kobe Electric Machinery Japan	0UTV0	PBFGNA16R021347 PBFGNA20R021347	13-091-BF-P-NA16-93 13-092-BF-P-NA20-93
/24	Allied Signal Laminate Systems Pendleton, SC	0WBV1	GMN0040CH/CHB2X GMN2500CH/CHB2C	13-215-GM-L-CH/CH-92 13-216-GM-G-CH/CH-92
/24	Allied Signal Laminate Systems LaCrosse, SC	98627	GMN0040CE/CEB2X GMN2500CE/CEB2C	13-284-GM-L-CE/CE-91 13-285-GM-G-CE/CE-91
/24	NELCO Fullerton, CA	0HB78	GMN0040CH/CHB3X GMN2500CH/CHB3C	13-613A-GM-L-CH/CH-91 13-613B-GM-G-CH/CH-91
/24	NELCO Walden, NY	06691	GMT0040CH/CHB2X GMT2500CH/CHB2C	13-207-GM-L-CH/CH-91 13-208-GM-G-CH/CH-91
/24	Neltec, Inc. Tempe, AZ	0TFT1	GMN0040CH/CHB3X GMN1250C1/C1B3C	13-499-GM-L-CH/CH-92 13-500-GM-G-C1/C1-92
/24	Polyclad Europe, SA Cedex, France	FA3D0	GMN0040CH/CHA2X GMN2500CH/CHA2C	13-418-GM-L-CH/CH-91 13-417-GM-G-CH/CH-91
/26	Allied Signal Laminate Systems Pendleton, SC	0WBV1	PGMN1080D25XX66 PGMN2116D41XX56 PGMN7628D67XX45	13-212-GM-P-G1-92 13-213-GM-P-G2-92 13-214-GM-P-G3-92
/26	Allied Signal Laminate Systems LaCrosse, WI	98627	PGMN1080D26XX62 PGMN2116D42XX56 PGMN7628D67XX45	13-289-GM-P-G1-91 13-290-GM-P-G2-91 13-291-GM-P-G3-91
/26	NELCO Fullerton, CA	0HB78	PGMN1080R351263 PGMN2116R301254 PGMN7628R231243	13-614A-GM-P-G1-91 13-614B-GM-P-G2-91 13-614C-GM-P-G3-91
/26	NELCO Walden, NY	06691	PGMT1080D231263 PGMT2116D421254 PGMT7628D671243	13-222-GM-P-G1-91 13-224-GM-P-G2-91 13-226-GM-P-G3-91
/26	NELCO (UK) United Kingdom		PGMN1080RXXXX65	13-U24-GM-P-G1-94
/26	Neltec, Inc. Tempe, AZ	0TFT1	PGMN1080D231263 PGMN2116D421254 PGMN7628D681243	13-501-GM-P-G1-92 13-502-GM-P-G2-92 13-503-GM-P-G3-92
/26	Polyclad Europe, SA Cedex, France	FA3D0	PGMN1080R418565 PGMN2116R356057 PGMN7628R209543	13-419A-GM-P-G1-91 13-419B-GM-P-G2-91 13-419C-GM-P-G3-91
/27	Arlon Rancho Cucamonga, CA	2J543	SCN0050CH/CHB2X SCN0930CH/CHB2C	13-452-SC-L-CH/CH-92 13-453-SC-G-CH/CH-92
/27	NELCO Walden, NY	06691	SCN0040CH/CHB3X	13-423-SC-L-CH/CH-92
/27	Neltec, Inc. Tempe, AZ	0TFT1	SCN0040CH/CHB3X	13-504-SC-L-CH/CH-92

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/28	Arlon Rancho Cucamonga, CA	2J543	PSCN6080R201550 PSCN6116R301550	13-454-SC-P-S1-92 13-455-SC-P-S1-92
/28	NELCO Walden, NY	06691	PSCN6080D231765	13-420-SC-P-S1-92
/28	Neltec, Inc. Tempe, AZ	0TFT1	PSCN6080D231765	13-506-SC-P-S1-92
/29	Allied Signal Laminate Systems Pendleton, SC	0WBV1	GCN0040CH/CHB2X GCN2500CH/CHB2C	13-220-GC-L-CH/CH-92 13-221-GC-G-CH/CH-92
/29	Arlon Rancho Cucamonga, CA	2J543	GCN0045CH/CHB2X GCN0930CH/CHB2C	13-456-GC-L-CH/CH-92 13-457-GC-G-CH/CH-92
/29	NELCO Walden, NY	06691	GCN0040CH/CHB3X GCN2500C1/C1B3C	13-421-GC-L-CH/CH-92 13-422-GC-G-C1/C1-92
/29	Neltec, Inc. Tempe, AZ	0TFT1	GCN0040CH/CHB3X GCN1250C1/C1B3C	13-507-GC-L-CH/CH-92 13-508-GC-G-C1/C1-92
/30	Allied Signal Laminate Systems LaCrosse, WI	98627	PGCN1080R361063 PGCN2116R190850 PGCN7628R221143	13-787-GC-P-G1-92 13-786-GC-P-G2-92 13-785-GC-P-G3-92
/30	Arlon Rancho Cucamonga, CA	2J543	PGCN1080R441563 PGCN2116R301550 PGCN7628R141537	13-458-GC-P-G1-92 13-459-GC-P-G2-92 13-460-GC-P-G3-92
/30	NELCO Walden, NY	06691	PGCN1080D231765 PGCN2116D431755 PGCN7628D681743	13-417-GC-P-G1-92 13-418-GC-P-G2-92 13-419-GC-P-G3-92
/30	Neltec, Inc. Tempe, AZ	0TFT1	PGCN1080D231765 PGCN2116D431755 PGCN7628D681743	13-509-GC-P-G1-92 13-510-GC-P-G2-92 13-511-GC-P-G3-92
/31	Arlon Rancho Cucamonga, CA	2J543	BIL0030CH/CHB2X BIL0310CH/CHB2C	13-240-BI-L-CH/CH-94 13-241-BI-G-CH/CH-94
/31	Arlon Bear, DE	52869	BIL0030CH/CHB2X BIL0310CH/CHB2C	13-240-BI-L-CH/CH-97 13-241-BI-G-CH/CH-97
/31	Neltec, Inc. Tempe, AZ	0TFT1	BIJ0025HH/HHB3X BIJ0620H1/H1B3C	13-132-BI-L-HH/HH-94 13-133-BI-G-H1/H1-94
/32	Arlon Rancho Cucamonga, CA	2J543	PBILNA16RXXXX47	13-242-BI-P-NA-94
/32	Neltec, Inc. Tempe, AZ	0TFT1	PBIJNA10D35XX53	13-134-BI-P-NA-94

SECTION II

COMPANY NAME ADDRESS	CAGE CODE	SPECIFICATION SLASH SHEET(S) QUALIFIED FOR:
Allied Signal Laminate Systems 165 South Price Road P.O. Box Q Chandler, AZ 85224-4935	0N5N4	/4, /12
Allied Signal Laminate Systems Route 31 North P.O. Box 250 Franklin, IN 46131-0250	0VF56	/4
Allied Signal Laminate Systems 1 Mechanic St. P.O. Box 124 Hoosick Falls, NY 12090-0124	0VF57	/4, /12
Allied Signal Laminate Systems 116 Westinghouse Drive Pendleton, SC 29670-9429	0WBV1	/4, /5, /10, /11, /12, /13, /18, /24, /26, /29
Allied Signal Laminate Systems 1300 Norplex Drive LaCrosse, WI 54602-1448	98627	/4, /5, /10, /12, /13, /16, /18, /24, /26, /30
Allied Signal Laminate Systems Europa Postpach 1109 Egerpohl 2 51688 Wipperfurth, Germany	0VF60	/4, /12
Allied Signal Laminate Systems Tech, Ltd. 915 Cheng Keng Road, Sec 2 Kuang Yin Industrial Road Tao Yuan Hsien R.O.C.	0VF59	/4, /12
Arlon, Inc. Materials for Electronics Div. 9433 Hyssop Drive Rancho Cucamonga, CA 91730-6107	2J543	/4, /10, /12, /13, /15, /16, /19, /20, /22, /23, /27, /28, /29, /30, /31, /32
Arlon, Inc. Materials for Electronics Div. 1100 Governor Lea Road Bear, DE 19701-1998	52869	/6, /7, /8, /9, /14, /31
Asia Chemical Corp. 161-1 Ming-Fu Road, Section 2 Yangmei Taoyuan, Taiwan, R.O.C.	0WB75	/4, /12
Chukoh Industries, Ltd. Toranomon Coiokoi Building 2-9-14 Toranomon Minatoku Tokyo 105 Japan Plant: Matsuura Factory Tsukinokawa-Machi Matsuura-city Nagasaki Pref. 859-44 Japan		/9

COMPANY NAME ADDRESS	CAGE CODE	SPECIFICATION SLASH SHEET(S) QUALIFIED FOR:
Dielektra GmbH Kaiserstrasse 127, D-51145 Koln Germany	D8088	/4, /12
Ditron Srl Via Mulino Vecchio 85 28065 Cerano (Novara), Italy	0T8G4	/2, /4, /12
Dongguan Shengyi Copper Clad Laminate Co., Ltd. Wanjing Industrial Development Zone Dongguan City, Guandon 511717 China	SB826	/4, /12
Doosan Electro-Materials Co., Ltd. 661 Yong Kang-Ri Jeung Pyong-Eup, Koesan-Kun Choongbuk, Korea		/4
Electroply 139 Illinois St. El Segundo, CA 90245-4389	17508	/4, /5, /12, /18
Elite Material Co., Ltd. 18 Ta-Tung 1st Rd., Kuan-Yin Industrial District, Tao-Yuan Hsien Taiwan, ROC		/4, /12
FiberCote Ind. 172 East Aurora Street Waterbury, CT 06725-2024	57929	/11, /12
General Electric 1350 South Second Street Coshocton, OH 43812-1979	08801	/4, /12, /15, /16
Hitachi Chemical Co., Ltd. P.O. Box 233 Shinjuku-Mitsui Building No. 1-1 1 Chome, Nishishinjuku, Shinjuku Tokyo 160, Japan Plant: Shimodate Plant 1500 Ohaza-Ogawa, Shimodate-Shi Ibaragi-Pref. 308, Japan	S7041	/4, /10, /12, /13
Isola/ADI, Inc. 401 Whitney Pl. Fremont, CA 94539-7671	OBCE1	/4, /5, /10, /12, /13, /18
Isola USA 100 Rillessen Boulevard Ridgeway, SC 29130-9423	07WL0	/4, /12
Isola Benelux, S.A Parc Industrial B04800 Petit-Rechain Belgium	B1321	/4
Isola Werke AG Isola - Strasse 2 D-52353 Duerren, Germany	C2440	/4, /10, /12, /13

COMPANY NAME ADDRESS	CAGE CODE	SPECIFICATION SLASH SHEET(S) QUALIFIED FOR:
Isola Werke (UK) Ltd. 2 Wyndford Road Warpark North Industrial Estate Scotland G68 0BA	0WHD3	/4, /12
J.A. Labs 16302 Lindbergh Street Van Nuys, CA 91406-1710	0D3H4	/12
MAS Italia SpA Via S. Sebastiano Nr. 21 51023 Bottegone Pistoia, Italy		/4, /12
Mass Lamination 2280-A Amber Drive Hatfield, PA 19440-1991	1HY42	/4, /5, /11, /12, /18
Matsushita Electric Works 1048 Kadoma, Kadoma-shi Osaka, Japan Plant: Koriyama Factory Aza-Ishizuka 111 Koriyama-Shi Fukushima-ken, Japan	S0293	/4, /8, /9, /10, /12, /13, /14
Matsushita Electronic Materials, Inc. 4114 Heather Street Forest Grove, OR 97119-9998	001G1	/4, /12
Mica-Ava (Far East) Industrial, Ltd. 4 Dai Shun Street Tai PO, Industrial Estate Tai PO, New Territories, Hong Kong	0UYC0	/4, /12
Mitsubishi Gas Chemical Co., Inc. Mitsubishi Building, 5-2 Marunouchi 2-Chome Chiyoda-ku, Tokyo 100, Japan	S0319	/4, /12
Multicon Electronics GmbH 30 Industriehafenstrasse A4470 Enns, Austria	S8390	/4, /12
NANYA Plastics Corp. Hsin-Kang CCL Plant 2, Chung-Yang Industrial Park Hsin-Kang, Hsiang, Jiayih Taiwan, R.O.C.		/4, /12
NANYA Plastics Corp. No. 201 Tung Hwa N. Road Taipei, Taiwan, R.O.C. Plant: Shu Lin Plant No. 55 Wei Wang St. Shu Lin, Taipei County Taiwan, R.O.C.	005B6	/4, /12
NELCO 1104 W. Geneva Drive Tempe, AZ 85282-3431	0K4X0	/12

COMPANY NAME ADDRESS	CAGE CODE	SPECIFICATION SLASH SHEET(S) QUALIFIED FOR:
NELCO 1411 East Orangethorpe Ave. Fullerton, CA 92631-5297	0HB78	/4, /10, /12, /13, /24, /26
NELCO 3 Elm Street P.O. Box 191 Walden, NY 12586-1805	06691	/4, /10, /12, /13, /24, /26, /27, /28, /29, /30
NELCO S.A. 72 Grande Rue 21310 Mirebeau-Sur-Beze France	0PCD2	/4, /12
NELCO UK 1 Paddock Road West Pimbo, Skelmerdale Lancashire, United Kindom, WN89PL		/4, /12, /26
NPL Taiwan Company, Ltd. No. 67, Kuang Fu Road Hsin Chu Industrial District Hu Kou Hsiang, Hsin Chu Hsien Taiwan, R.O.C.	0W5H9	/4, /12
NVF Company Lafayette & Mulberry Streets Kennett Square, PA 19348-0516	58610	/4, /12
Neltec, Inc. 1420 W. 12th Place Tempe, AZ 85281-5214	0TFT1	/4, /10, /12, /13, /24, /26, /27, /28, /29, /30, /31, /32
Perstorp Do Brazil S.A. Av. Piraporinha, 852CEP09700 S.P. Campo, Sao Paulo, Brazil		/4
PIAD SpA Strada Statale Vigevanese KM 20.7, 20080-Ozzero Milano, Italy	0T276	/4, /12
Polyclad 2720 S. Main Street Santa Ana, CA 92711-1805	40334	/4, /10, /12
Polyclad 86 Providence Street Millbury, MA 01527-3943	0U674	/4, /10, /12
Polyclad Industrial Park Franklin, NH 03235-6299	0WYB9	/4, /10, /12, /13
Polyclad Europe, S.A. 12, Rue de la Garde B.P. 23574 44335 Nantes, Cedex 3 France	FA3D0	/4, /12, /24, /26

COMPANY NAME ADDRESS	CAGE CODE	SPECIFICATION SLASH SHEET(S) QUALIFIED FOR:
Polyclad Europe, AB S-284 80 Perstorp AB, Sweden	S3512	/4, /12
Precision Laminates 7 East Franklin St. Danburry, CT 06810-5469	50970	/4, /5
QLP Laminates 4955 E. Hunter Avenue Anaheim, CA 92807-1912 Plant: 4950 E. La Palma Avenue Anaheim, CA 92807-1912	0TKK1	/4, /5, /11, /12, /18
Rogers Corp. 100 South Roosevelt Avenue Chandler, AZ 85226-3415	65028	/6, /7, /8, /9
Shin Kobe Electric Machinery Co., Ltd. 800 Kawasebabe-Chyo Shinga-Pref 522-02 Japan	0UTV0	/22, /23
Synthane-Taylor Corp. 1400 Arrow Highway La Verne, CA 91750-5289	26663	/4, /12
Taconic Plastics P.O. Box 69 Petersburg, NY 12138-0069	59688	/8, /9, /14