



## 2021 Halogen-Free Product Certificate of Compliance

All Halogen-Free products meet the requirements of the following standards:

- JEDEC
- IEC 61249
- JPCA-ES-01-2003
- IPC-4101B

Most organizations, including IPC, have adopted, the levels developed by the International Electrochemical Commission (IEC) as acceptable. Therefore, the halogen-free products listed in the attached Kester product tables are compliant based on the maximum concentration values (MCV) for the restricted substances as specified below.

Material	Maximum Limit (ppm)
Chlorine (Cl)	900 ppm
Bromine (Br)	900 ppm
Total Halogen	1500 ppm

Zero-halogen products contain no intentionally added halogens, surpassing the halogen-free requirement. These products are also listed in the attached tables.

This Certificate of Compliance will be updated to reflect changes in restricted substances. Kester does not provide any warranty with respect to the information provided from this Certificate of Compliance. The Terms and Conditions of Sale under which customers purchased Kester solder products shall continue to apply.

Other updated product compliance declarations can be downloaded from our website at <https://www.kester.com>, including:

- RoHS (Restriction of Hazardous Substances) Product Certificate(s) of Compliance
- REACH Substance of Very High Concern (SVHC)
- EICC Conflict Minerals Reporting Template (CMRT)

Should you require additional information, please send your requests to: [customerservice@kester.com](mailto:customerservice@kester.com).



### Halogen-Free Solder Wire Products

Product Name	Description	Kester Part #	Halogen-Free	Zero-Halogen
268 Flux-Cored Wire	Sn96.5Ag3.0Cu0.5 3.3%/268 .010 113 G Robo SPL	9370699510	Yes	Yes
268 Flux-Cored Wire	Sn96.5Ag3.0Cu0.5 3.3%/268 .015 500 G Robo SPL	9670699515	Yes	Yes
268 Flux-Cored Wire	Sn96.5Ag3.0Cu0.5 3.3%/268 .020 500 G Robo SPL	9670699520	Yes	Yes
268 Flux-Cored Wire	Sn96.5Ag3.0Cu0.5 3.3%/268 .025 500 G Robo SPL	9670699525	Yes	Yes
268 Flux-Cored Wire	Sn96.5Ag3.0Cu0.5 3.3%/268 .031 500 G Robo SPL	9670699531	Yes	Yes
268 Flux-Cored Wire	Sn96.5Ag3.0Cu0.5 3.3%/268 .040 500 G Robo SPL	9670699540	Yes	Yes
268 Flux-Cored Wire	K100LD 3.3%/268 .015 500 G Robo SPL	9695749515	Yes	Yes
268 Flux-Cored Wire	K100LD 3.3%/268 .020 500 G Robo SPL	9695749520	Yes	Yes
268 Flux-Cored Wire	K100LD 3.3%/268 .025 500 G Robo SPL	9695749525	Yes	Yes
268 Flux-Cored Wire	K100LD 3.3%/268 .031 500 G Robo SPL	9695749531	Yes	Yes
268 Flux-Cored Wire	K100LD 3.3%/268 .040 500 G Robo SPL	9695749540	Yes	Yes
268 Flux-Cored Wire	Sn63Pb37 3.3%/268 .015 500 G Robo SPL	9663379515	Yes	Yes
268 Flux-Cored Wire	Sn63Pb37 3.3%/268 .031 500 G Robo SPL	9663379531	Yes	Yes
278 Flux-Cored Wire	Innolot 2.2%/278 .020 100 G Robo SPL	9074823320	Yes	No
278 Flux-Cored Wire	Innolot 2.2%/278 .031 250 G Robo SPL	9074823331	Yes	No
278 Flux-Cored Wire	Innolot 2.2%/278 .040 250 G Robo SPL	9074823340	Yes	No

Kester is a product brand of MacDermid Alpha Electronics Solutions.  
For more information, contact us at [Assembly@MacDermidAlpha.com](mailto:Assembly@MacDermidAlpha.com)

© 2020 MacDermid, Inc. and its group of companies. All rights reserved.® and ™ are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.





### Halogen-Free Liquid Solder Flux Products

Product Name	Description	Kester Part #	Halogen-Free	Zero-Halogen
1800 Soldering Flux	1800 Soldering Flux 1 GAL	6300001800	Yes	
2120 Soldering Flux	2120 Soldering Flux 1 GAL	6300002120	Yes	
2120 Soldering Flux	2120 Soldering Flux 5 GAL	6400002120	Yes	
2120 Soldering Flux	2120 Soldering Flux 53 GAL	6500002120	Yes	
2125 Soldering Flux	2125 Soldering Flux 20 LIT	6600002125	Yes	Yes
2164 Soldering Flux	2164 20LITS P	FC0595	Yes	Yes
2166-BN Soldering Flux	2166-BN Soldering Flux 1 GAL	6300252166	Yes	Yes
2166-BN Soldering Flux	2166-BN Soldering Flux 53 GAL	6500252166	Yes	Yes
2166-BN Soldering Flux	2166-BN Soldering Flux 20 LIT	6600252166	Yes	Yes
2169 Soldering Flux	2169 Soldering Flux 20 LIT	6600002169	Yes	Yes
5252 Cleaner	5252 20LITS P	6600005252	Yes	
5252M Cleaner	5252-M 20LITS M	FC2117	Yes	
5252M Cleaner	5252-M 20LITS M MS	FC2127	Yes	
8680 RMA-A Soldering Flux	8680 RMA-A HALIDE FREE CHEMICAL FLUX 500ml Bottle	601201	Yes	Yes
920-CXF Soldering Flux	920-CXF Soldering Flux 1 GAL	6303460920	Yes	Yes
920-CXF Soldering Flux	920-CXF Soldering Flux 53 GAL	6403460920	Yes	Yes
920-CXF Soldering Flux	920-CXF Soldering Flux 5 GAL	6503460920	Yes	Yes
920-CXF Soldering Flux	920-CXF Soldering Flux 20 LIT	6603460920	Yes	Yes
922-CX Soldering Flux	922-CX Soldering Flux 1 GAL	6300340922	Yes	Yes
922-CX Soldering Flux	922-CX Soldering Flux 5 GAL	6400340922	Yes	Yes
922-CX Soldering Flux	922-CX Soldering Flux 53 GAL	6500340922	Yes	Yes

Kester is a product brand of MacDermid Alpha Electronics Solutions. For more information, contact us at [Assembly@MacDermidAlpha.com](mailto:Assembly@MacDermidAlpha.com)

© 2020 MacDermid, Inc. and its group of companies. All rights reserved.® and ™ are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.





Product Name	Description	Kester Part #	Halogen-Free	Zero-Halogen
950E Soldering Flux	950E Soldering Flux 1 GAL	6300050950	Yes	Yes
950E Soldering Flux	950E Soldering Flux 5 GAL	6400050950	Yes	Yes
950E Soldering Flux	950E Soldering Flux 53 GAL	6500050950	Yes	Yes
951 Flux-Pen®	951 Flux-Pen 20 CTN	8310000951	Yes	Yes
951 Soldering Flux	951 Soldering Flux 1 GAL	6300000951	Yes	Yes
951 Soldering Flux	951 Soldering Flux 5 GAL	6400000951	Yes	Yes
951 Soldering Flux	951 Soldering Flux 53 GAL	6500000951	Yes	Yes
951 Soldering Flux	951 Soldering Flux 20 LIT	6600000951	Yes	Yes
952-D6 Flux-Pen®	952-D6 Flux-Pen 20 CTN	8310460952	Yes	Yes
952-D6 Soldering Flux	952-D6 Soldering Flux 1 GAL	6300460952	Yes	Yes
952-D6 Soldering Flux	952-D6 Soldering Flux 53 GAL	6500460952	Yes	Yes
952-S Soldering Flux	952-S Soldering Flux 1 GAL	6300010952	Yes	Yes
952-S Soldering Flux	952-S Soldering Flux 5 GAL	6400010952	Yes	Yes
952-S Soldering Flux	952-S Soldering Flux 53 GAL	6500010952	Yes	Yes
952-S Soldering Flux	952-S Soldering Flux 20 LIT	6300010952	Yes	Yes
NF1060-VF Soldering Flux	NF1060-VF Soldering Flux 1 GAL	6300023060	Yes	
NF1060-VF Soldering Flux	NF1060-VF Soldering Flux 5 GAL	6400023060	Yes	
NF1060-VF Soldering Flux	NF1060-VF Soldering Flux 53 GAL	6500023060	Yes	
NF372-TB Flux-Pen®	NF372-TB Flux-Pen 20 CTN	8310000372	Yes	Yes
NF372-TB Soldering Flux	NF372-TB Soldering Flux 1 GAL	6300022372	Yes	Yes
NF372-TB Soldering Flux	NF372-TB Soldering Flux 5 GAL	6400022372	Yes	Yes

Kester is a product brand of MacDermid Alpha Electronics Solutions. For more information, contact us at [Assembly@MacDermidAlpha.com](mailto:Assembly@MacDermidAlpha.com)

© 2020 MacDermid, Inc. and its group of companies. All rights reserved.® and ™ are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.





Product Name	Description	Kester Part #	Halogen-Free	Zero-Halogen
NF372-TB Soldering Flux	NF372-TB Soldering Flux 53 GAL	6500022372	Yes	Yes
SELECT-10™ Selective Solder Flux	SELECT-10 Selective Solder Flux 5 GAL	6400018010	Yes	Yes
SELECT-10™ Selective Solder Flux	SELECT-10 Selective Solder Flux 1 LIT	6700018010	Yes	Yes
SELECT-10™ Selective Solder Flux	SELECT-10 Selective Solder Flux 1 GAL	6300018010	Yes	Yes
SELECT-3.9™ Selective Solder Flux	SELECT-10 Selective Solder Flux 1 GAL	6300019039	Yes	Yes
SELECT-3.9™ Selective Solder Flux	SELECT-10 Selective Solder Flux 5 GAL	6400019039	Yes	Yes
SELECT-3.9™ Selective Solder Flux	SELECT-10 Selective Solder Flux 1 LIT	6700019039	Yes	Yes
SF800-LR Soldering Flux	SF800-LR 20 LITS P	6600020800	Yes	Yes
SF800-LR Soldering Flux	SF800-LR Soldering Flux 1 GA	6300020800	Yes	Yes

### Halogen-Free Solder Paste and Rework Flux Products

Product Name	Description	Kester Part #	Halogen-Free	Zero-Halogen
EM919G Solder Paste	EM919G 12% Sn96.5Ag3Cu.5 25-45µ 500g J	41500598	Yes	
NP505-HR Solder Paste	NP505-HR Sn96.5Ag3.0Cu0.5 T3 88.5% 500g JAR	7040210810	Yes	Yes
NP505-HR Solder Paste	NP505-HR Sn96.5Ag3.0Cu0.5 T3 88.5% 600g CRT	7040210811	Yes	Yes
NP505-HR Solder Paste	NP505-HR Sn96.5Ag3.0Cu0.5 T4 88.5% 500g JAR	7040211410	Yes	Yes
NP505-HR Solder Paste	NP505-HR Sn96.5Ag3.0Cu0.5 T4 88.5% 600g CRT	7040211411	Yes	Yes
NP505-HR Solder Paste	NP505-HR Sn96.5Ag3.0Cu0.5 T5 88% 500gram jar	7040062010	Yes	Yes

Kester is a product brand of MacDermid Alpha Electronics Solutions. For more information, contact us at [Assembly@MacDermidAlpha.com](mailto:Assembly@MacDermidAlpha.com)

© 2020 MacDermid, Inc. and its group of companies. All rights reserved.® and ™ are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.





Product Name	Description	Kester Part #	Halogen-Free	Zero-Halogen
NP505-HR Solder Paste	NP505-HR Sn96.5Ag3.0Cu0.5 T5 88% 600 gram cartridge	7040062011	Yes	Yes
NP505-HR Solder Paste	NP505-HR 11.5% Sn96.5Ag3Cu0.5 20-38µ 500g J	41500643	Yes	Yes
NP505-HR Solder Paste	NP505-HR 11.5% Sn96.5Ag3Cu0.5 25-45µ 500g J	41500644	Yes	Yes
NP505-HR Solder Paste	NP505-HR 11.5% Sn96.5Ag3Cu0.5 25-45µ 600g C	41500646	Yes	Yes
NP505-HR Solder Paste	NP505-HR Innolot T4 88.2% 600g CRT	7054262411	Yes	Yes
NP505-HR Solder Paste	NP505-HR Innolot T4 88.2% 500g JAR	7054262410	Yes	Yes
NP505-LT Solder Paste	NP505-LT Sn42Bi57Ag1 T4 89.5% 500g JAR	7040032110	Yes	Yes
NP505-LT Solder Paste	NP505-LT Sn42Bi57Ag1 T4 89.5% 600g CRT	7040032111	Yes	Yes
NP510-LT HRL1 Solder Paste	NP510-LT HRL1 T4 88% 500g JAR	NP510-LT HRL1 T4 88% 500g JAR	Yes	Yes
NP545 Solder Paste	NP545 Sn96.5Ag3.0Cu0.5 T3 88.5% 500g JAR	7041050810	Yes	Yes
NP545 Solder Paste	NP545 Sn96.5Ag3.0Cu0.5 T3 88.5% 600g CRT	7041050811	Yes	Yes
NP545 Solder Paste	NP545 Sn96.5Ag3.0Cu0.5 T4 88.3% 500g JAR	7041050910	Yes	Yes
NP545 Solder Paste	NP545 Sn96.5Ag3.0Cu0.5 T4 88.3% 600g CRT	7041050911	Yes	Yes
NP545 Solder Paste	NP545 Sn96.5Ag3.0Cu0.5 T4 88.5% 750g DEK	7041050919	Yes	Yes

Kester is a product brand of MacDermid Alpha Electronics Solutions.  
For more information, contact us at [Assembly@MacDermidAlpha.com](mailto:Assembly@MacDermidAlpha.com)

© 2020 MacDermid, Inc. and its group of companies. All rights reserved.® and ™ are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.





Product Name	Description	Kester Part #	Halogen-Free	Zero-Halogen
NP560 Solder Paste	NP560 Sn96.5Ag3.0Cu0.5 T4 88.3% 500g JAR	7048230910	Yes	
NP560 Solder Paste	NP560 Sn96.5Ag3.0Cu0.5 T4 88.3% 600g CRT	7048230911	Yes	
NP560 Solder Paste	NP560 Sn96.5Ag3.0Cu0.5 T4 86.5% 100g SYR	7048250904	Yes	
RF550 Rework Flux	Rework Flux 30g SYR	7040010003	Yes	Yes
WP616 Solder Paste	WP616 Sn96.5Ag3.0Cu0.5 T4 88.8% 500g JAR	7050220910	Yes	Yes
WP616 Solder Paste	WP616 Sn96.5Ag3.0Cu0.5 T4 88.8% 600g CRT	7050220911	Yes	Yes
WP616 Solder Paste	WP616 Sn96.5Ag3.0Cu0.5 T5 88.3% 500g JAR	7050232210	Yes	Yes
WP616 Solder Paste	WP616 Sn96.5Ag3.0Cu0.5 T5 88.3% 600g CRT	7050232211	Yes	Yes

### Halogen-Free Tacky Solder Flux Products

Product Name	Description	Kester Part #	Halogen-Free	Zero-Halogen
BAF-1488HF	BAF-1488HF 150g CRT	301905	Yes	Yes
TSF-6522RH	TSF-6522RH 10g SYR	301002	Yes	
TSF-6522RH	TSF-6522RH 10g SYR	901002	Yes	
TSF-6522RH	TSF-6522RH 30g SYR	301003	Yes	
TSF-6522RH	TSF-6522RH 30g SYR	901003	Yes	
TSF-6522RH	TSF-6522RH 100g JAR	301004	Yes	
TSF-6522RH	TSF-6522RH 100g JAR	901004	Yes	
TSF-8808	TSF-8808 30	301303	Yes	Yes
TSF-8818HF	TSF-8818HF 30g SYR	301903	Yes	Yes
TSF-6592HF	TSF-6592HF 30g SYR	302703	Yes	

Kester is a product brand of MacDermid Alpha Electronics Solutions.  
For more information, contact us at [Assembly@MacDermidAlpha.com](mailto:Assembly@MacDermidAlpha.com)

© 2020 MacDermid, Inc. and its group of companies. All rights reserved.® and ™ are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.

