

394, 395, 396 SERIES PERFORMANCE, LOW PROFILE HEAT SINKS FOR POWER MODULES

Cat. No.	Overall Dimensions: in. (mm)			Device Base Mounting Area (mm)
	Length	Height	Width	
394-1AB	3.000 (76.2)	1.500 (38.1)	5.000 (127.0)	101 × 76
394-2AB	5.500 (139.7)	1.500 (38.1)	5.000 (127.0)	101 × 139
395-1AB	3.000 (76.2)	2.500 (63.5)	5.000 (127.0)	50 × 76
395-2AB	5.500 (139.7)	2.500 (63.5)	5.000 (127.0)	50 × 139
396-1AB	3.000 (76.2)	1.380 (35.1)	5.000 (127.0)	50 × 76
396-2AB	5.500 (139.7)	1.380 (35.1)	5.000 (127.0)	50 × 139

Cat. No.	Base Mounting Holes	Thermal Resistance at Typical Load		Net Price
		Natural Convection (θ_{SA}) ¹ (°C/W)	Forced Convection (θ_{SA}) (°C/W@500LFM)	
394-1AB	4	1.85	0.90	\$24.85
394-2AB	6	1.51	0.60	31.71
395-1AB	4	1.10	0.50	25.03
395-2AB	6	0.90	0.32	33.96
396-1AB	4	1.85	1.07	22.29
396-2AB	6	1.51	0.64	28.97

Note: ¹Thermal resistance values shown are for black anodized finish at 50°C rise above ambient.



WAKEFIELD 510 & 511 SERIES HIGH FIN DENSITY HEAT SINKS

The 510 and 511 series are unique extrusions which provide maximum cooling efficiency per unit volume. The broad flat base is ideally suited for cooling multiple power-generating components.

Cat. No.	Width	Height	Length	Net Price
510 SERIES (UNFINISHED ALUMINUM FINISH, UNMACHINED BASE)				
5103U	7.4"	3.136"	3"	\$27.01
5106U	7.4"	3.136"	6"	46.36
5109U	7.4"	3.136"	9"	66.21
51012U	7.4"	3.136"	12"	85.87
510 SERIES (UNFINISHED ALUMINUM FINISH, MACHINED BASE)				
5103M	7.4"	3.076"	3"	50.56
5106M	7.4"	3.076"	6"	72.95
5109M	7.4"	3.076"	9"	94.79
51012M	7.4"	3.076"	12"	115.96
511 SERIES (UNFINISHED ALUMINUM FINISH, UNMACHINED BASE)				
5113U	5.3"	2.335"	3"	17.95
5116U	5.3"	2.335"	6"	30.11
5119U	5.3"	2.335"	9"	72.11
51112U	5.3"	2.335"	12"	84.98
511 SERIES (UNFINISHED ALUMINUM FINISH, MACHINED BASE)				
5113M	5.3"	2.305"	3"	41.50
5116M	5.3"	2.305"	6"	56.70
5119M	5.3"	2.305"	9"	71.56
51112M	5.3"	2.305"	12"	84.24



657 SERIES HIGH-PERFORMANCE NOTCHED HEAT SINKS FOR VERTICAL BOARD MOUNTING

Cat. No.	Height Above PC Board	Thermal Performance at Typical Load		Net Price
		Natural Convection	Forced Convection	
657-10ABPN	1.000 in. (25.4)	41°C@6W	3.7°C/W@200LFM	\$1.99
657-15ABPN	1.500 in. (38.1)	38°C@6W	3.3°C/W@200LFM	2.06
657-20ABPN	2.000 in. (50.8)	32°C@6W	2.9°C/W@200LFM	2.42
657-25ABPN	2.500 in. (63.5)	25°C@6W	2.7°C/W@200LFM	2.55



WAKEFIELD 120 THERMAL JOINT COMPOUND

WAKEFIELD 120 THERMAL JOINT COMPOUND

Cat. No.	Container Size	Net Price
120-2	2 oz. jar	\$8.11
120-5	5 oz. tube	15.41
120-8	8 oz. jar	22.24
120-80	5 lb. can	134.09

WAKEFIELD 126 THERMAL JOINT COMPOUND

Cat. No.	Size	Net Price
126-2	2 oz. jar	\$12.82
126-4	4 oz. tube	19.59



WAKEFIELD DELTA BOND 152

WAKEFIELD DELTA 150 EPOXY SYSTEMS

Cat. No.	Contents	Net Price
152-1-A	1 oz BiPack Resin and Hardener "A"	\$21.67
152-K-A	7 oz Resin, .5 oz Hardener "A"	88.58
152-Q	1 quart Adhesive Resin only	111.99

ELECTRONICS GRADE SILICONES

Loctite Adhesives are specified by the world's leading fibre optic component manufacturers. With the most diversified line of adhesives and sealants in the industry, Henkel Loctite has products to meet your specific needs. Whether you are manufacturing modulators, collimators, amplifiers, beam splitters, switches, etc., Henkel Loctite is the best resource for fibre optics assistance. Adhesives provide design advantages, speed assembly time, and increase production efficiency and quality.

5140 RTV POTTING

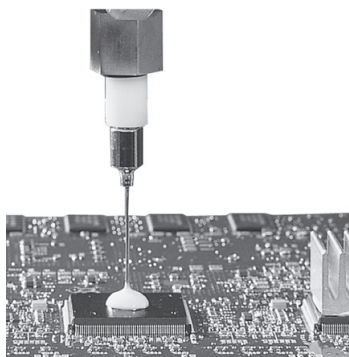
A non-corrosive, self-leveling, RTV silicone for shallow potting, sealing, and coating electronic devices, especially for military, automotive, and industrial electronics. Metts Mil-A-46146B.

5145 ADHESIVE/SEALANT

A high-strength, non-corrosive, form-in-place silicone adhesive for bonding and

Cat. No.	Description	Net Price
5140 RTV POTTING		
18120	85 gm tube	\$29.31
18117	300 ml cartridge	73.37
5145 ADHESIVE/SEALANT		
20250	3 oz. tube	42.73
19803	300 ml cartridge	91.87
5088 NUVA-SIL® POTTING COMPOUND		
17614	300 ml cartridge	93.74
5089 NUVA-SIL® POTTING COMPOUND		
33645	300 ml cartridge	164.44

NOTE: For more information please contact your Electro Sonic sales representative.



THERMALLY CONDUCTIVE ADHESIVES

Henkel Loctite® Thermally Conductive Adhesives eliminate the need for mechanical fasteners and clips, while providing the most efficient thermal transfer between transistors or microprocessors and their heat sinks. Loctite offers a wide range of adhesive chemistries including silicones, acrylics, and epoxies. Many processing options are available for curing these adhesives such as heat cure, activator cure, and UV light.

315 OUTPUT™ ACRYLIC ADHESIVE

A self-shimming adhesive for electrical isolation. Cures at room temperature. Cure schedule: fixtures in 5 minutes @ 20°C. Full cure: 4-24 hours @ 20°C.

383 OUTPUT™ REPAIR ACRYLIC ADHESIVE

A high strength, room temperature curing adhesive for permanent assemblies. Cure schedule: fixtures in 5 minutes @ 20°C. Full cure: 4-24 hours @ 20°C.

384 OUTPUT™ REPAIRABLE ACRYLIC ADHESIVE

A repairable, room temperature curing adhesive used for parts subject to disassembly. Cure schedule: fixtures in 5 minutes @ 20°C. Full cure: 4-24 hours @ 20°C.

3873 ACRYLIC ADHESIVE HIGH CONDUCTIVITY

A fast curing self-shimming adhesive for bonding heat generating devices to thermal spreader. Cure schedule: fixtures in 5 minutes @ 20°C. Full cure: 4-24 hours @ 20°C.

5404 OUTPUT™ HEAT CURE SILICONE

A self-shimming, flexible adhesive for demanding parts such as ceramic boards. Cure schedule: 10 minutes @ 150°C.

Cat. No.	Description	Net Price
315 OUTPUT™ ACRYLIC ADHESIVE		
31520	25 ml syringe	\$40.32
31575	300 ml cartridge	237.51
383 OUTPUT™ ACRYLIC ADHESIVE		
17098	25 ml syringe	30.42
33348	25 ml EFD syringe	37.15
12991	300 ml cartridge	213.74

Cat. No.	Description	Net Price
384 OUTPUT™ REPAIRABLE ACRYLIC ADHESIVE		
20286	25 ml EFD syringe	\$30.42
17099	25 ml syringe	30.42
17041	300 ml cartridge	213.74
3873 ACRYLIC ADHESIVE HIGH CONDUCTIVITY		
29822	25 ml syringe	51.02
29823	300 ml cartridge	347.07
5404 OUTPUT™ HEAT CURE SILICONE		
26665	300 ml cartridge	309.49



POTTING AND ENCAPSULATION

HYSOL® ES4212/ES4412

Hysol® ES4212 and ES4412 are two-component casting systems with excellent handling properties. They combine low cost and flexibility with ease in handling. These products mix in 1-to-1 ratio by volume and are filled with non-abrasive fillers for machine metering and dispensing. ES4212 has a long pot life, while ES4412 are shorter pot life, faster curing systems.

HYSOL® ES4512

Hysol® ES4512 is a two-component, long pot life casting system with excellent handling properties. This low cost, flexible system is filled with a non-abrasive filler for machine metering/dispensing or regular hand mixer applications. Hysol® ES4512 is listed in U.L.'s recognized component index with 94V-0 rating in 1/8 inch cross section.

HYSOL® US5517 (FORMERLY LOCTITE® 821101R & C)

Hysol® US5517 is an extended polybutadiene/MDI base; mineral filled, medium hardness, ambient cure urethane encapsulated/sealant. This material can be used for potting electronics or devices for protection against environmental hazards. It exhibits very little hardness increase when cooled down to -75°C. It can be used for devices in the telecommunications and automotive industries. This product is UL recognized with a rating of 94 V-0 File E94621. The 1 to 4 volume ratio makes meter-mix dispensing convenient.

HYSOL® US5500 (FORMERLY LOCTITE® 82878R & C)

Hysol® US5500 is an unfilled, low viscosity, re-enterable potting and encapsulation compound. It is a mix ration friendly system. It is used to encapsulate electronics for automotive applications including under-the-hood. The low-glass transition temperature means that sensitive components are not damaged during low temperature exposure.

Cat. No.	Description	Net Price
HYSOL® ES4212		
EA4212B50	1 gallon can (2 part works with EB4212B50)	\$180.25
EB4212B50	1 gallon can (2 part works with EA4212B50)	230.85
EA4212B80	5 gallon pail (2 part works with EB4212B80)	657.15
EB4212B80	5 gallon pail (2 part works with EA4212B80)	799.76
HYSOL® ES4412		
EA4412B50	1 gallon can (2 part works with EB4412B50)	212.67
EB4412B50	1 gallon can (2 part works with EA4412B50)	256.17
EA4412B80	5 gallon pail (2 part works with EB4412B80)	715.03
EB4412B80	5 gallon pail (2 part works with EA4412B80)	986.56
HYSOL® ES4512		
EA4512B50	1 gallon can (2 part works with EB4512B50)	233.70
EB4512B50	1 gallon can (2 part works with EA4512B50)	287.44
EA4512B80	5 gallon pail (2 part works with EB4512B80)	831.88
EB4512B80	5 gallon pail (2 part works with EA4512B80)	1060.18
HYSOL® US5500		
UA5500B50A1	1 gallon can (2 part works with UB5500B50A1)	150.41
UB5500B50A1	1 gallon can (2 part works with UA5500B50A1)	200.43
UA5500B80A3	5 gallon pail (2 part works with UB5500B80A1)	656.65
UB5500B80A3	5 gallon pail (2 part works with UA5500B80A3)	663.23
HYSOL® US5517		
UA5517B50	1 gallon can (2 part works with UB5517B50)	309.50
UB5517B50	1 gallon can (2 part works with UA5517B50)	207.42

NOTE: For more information please contact your Electro Sonic sales representative.