

ADHETRON®
Masterpiece of Adhesives



PRODUCT CATALOGUE

**INDUSTRIAL ADHESIVES
& POTTING COMPOUNDS**

ANAEROBIC ADHESIVES

LOCK'TRON SERIES



LOCK'TRON ANAEROBIC ADHESIVE PRODUCTS

They prevent loosening of bolts, nuts and screws due to vibration and protect against corrosion. Lock'trons are used for tight fitting of pins, wedges and cylindrical parts. They are used for sealing and unloosening in screwed connections. They can be easily applied on oily parts.



CODE	HANDLING STRENGTH	COLOR	VISCOSITY (Cps)	GAP FILLING (mm)	INITIAL CURE (min)	TORQUE (N.M) BREAKAWAY-PREVALING	OPERATION TEMPERATURE (°C)	PROPERTIES
T1242	MEDIUM	BLUE	1000	0,3	10-30	8/22, 10/22	-50 to +150	Medium strenght, Medium viscosity
T1243	MEDIUM	BLUE	2500-5000	0,4	10-30	8/22, 10/22	-50 to +150	Medium strenght, High viscosity
T1262	HIGH	RED	1200 - 2400	0,3	10-30	11/28, 11/34	-50 to +150	High strenght, Medium viscosity
R1638	VERY HIGH	GREEN	2500-3000	0,25	5-10	20/25 - 20/30	-50 to +150	High strenght, High viscosity
S1577	MEDIUM	YELLOW/ORANGE	70K	0,5	15-30	15/20 - 10/15	-50 to +150	Sealant, based on PTFE, Resistant to 350 bar

ANTI STICK COATINGS

HIGH TEMPERATURE



GRA-C 0701

Gra-C 0701 is a water-based coating consisting of high purity natural flake graphite and amorphous carbon particles. Gra-C 0701 is used as a release agent on graphite trays and hardware in the carbide tooling industry.

COLOR	DARK GREY
VISCOSITY(25°C)	5000-20000 Cps
CURING TIME	24 hour
TEMPERATURE RESISTANCE	2000 °C
PH	9-10



ACRY'TRON 1E1

Acry'tron 1E1 is a 100% solid, high performance acrylic based structural adhesive with low odor and bake proof high temperature resistance.

Acry'tron 1E1 has an excellent flexibility which tolerates different coefficient of thermal expansion of dissimilar substrates. Very good at heat resistance. MMA free, low hazard formula. 1E1 can be used with mixing tips or bead on bead.

BASE	ACRYLIC
COLOR	BROWNISH GREEN
VISCOSITY	8000-10000 Cps
FIXTURE TIME	8-12 min
FUNCTIONAL STRENGTH	2 hour
TEMPERATURE RESISTANCE	-40°C +220°C
FULL CURE	24 hour

MATERIALS THAT CAN BE BOND WITH ACRY'TRON SERIES

STEEL	ZINC	FERRITE	ALUMINIUM	POLYESTER	ACRYLIC	COPPER
HARD PVC	WOOD	STAINLESS STEEL	ABS	GLASS	BRASS	STYROL
MIRROR	CHROMIUM	EPOXY FRP	STONE	NICKEL	PHENOLIC FRP	CONCRETE



ACRY'TRON 007

Acry'tron 007 is a 100% solid, high performance acrylic based structural adhesive. Acry'tron 007 has an excellent flexibility which tolerates different coefficient of thermal expansion of dissimilar substrates.

BASE	ACRYLIC
COLOR	AMBER
VISCOSITY	4000-5000 Cps
FIXTURE TIME	3-5 min
FUNCTIONAL STRENGTH	1 hour
TEMPERATURE RESISTANCE	-40°C +150°C
FULL CURE	24 hour

LAP SHEAR STRENGTH (N/mm²)

STEEL-STEEL	27,6	ZINC-ZINC	21,4	STAINLESS STEEL-STAINLESS STEEL	20,4
ABS-ABS	4,7	NICKEL-NICKEL	19,3	EPOXY FRP-EPOXY FRP	8,4
HARD PVC-HARD PVC	3,5	PHENOLIC FRP-PHENOLIC FRP	6,5	ALUMINIUM-ALUMINIUM	22,4
COPPER-COPPER	24,4	BRASS-BRASS	22,8	CHROMIUM-CHROMIUM	16,2
POLYESTER-POLYESTER	3,1	STYROL-STYROL	2,4		



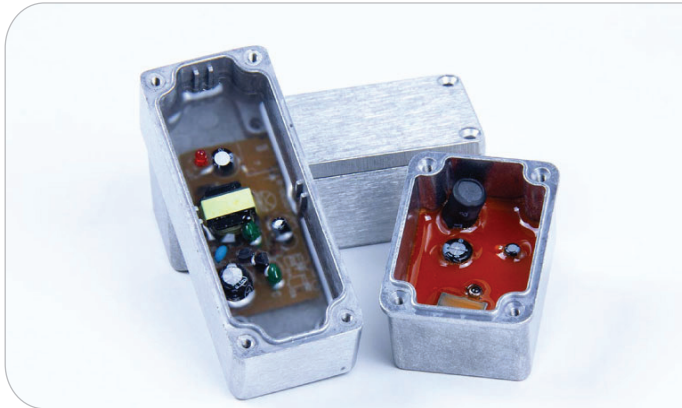
ACRY'TRON MMA 715

Acry'tron MMA 715 is a two component methyl-methacrylate based structural adhesive. Acry'tron MMA 715 is designed for high strength structural bonding of metals, thermoplastics and composites with excellent chemical resistant properties.

BASE	ACRYLIC
VISCOSITY	150K-180K Cps
FIXTURE TIME	12-15 min
FUNCTIONAL STRENGTH	45-60 min
FULL CURE	24 hour
TEMPERATURE RESISTANCE	-50°C +120°C
GAP FILLING	4 mm

EPOXY ADHESIVES

EP SERIES



EP5010

EP 5010 is a low viscosity epoxy resin, which is ideal for bonding, coating, potting, encapsulating many different substrates such as plugs, switches, electronic components with metal, plastics and composites materials. 100% solid and solvent free.

BASE	EPOXY
COLOR	CLEAR
VISCOSITY	1000-1100 Cps
FULL CURE	24 hour
TEMPERATURE RESISTANCE	-40°C +100°C

EP2669

EP2669 is a high performance electrical insulating, thermally conductive epoxy adhesive, potting and encapsulation compound. A combination of excellent characteristics of thermal conductivity and low coefficient expansion.

BASE	EPOXY
COLOR	BLACK
VISCOSITY	70K-75K Cps
SPECIFIC GRAVITY	2,5
TEMPERATURE RESISTANCE	-75°C +130°C
THERMAL CONDUCTIVITY	0,7 W/mK



EP TEF4463

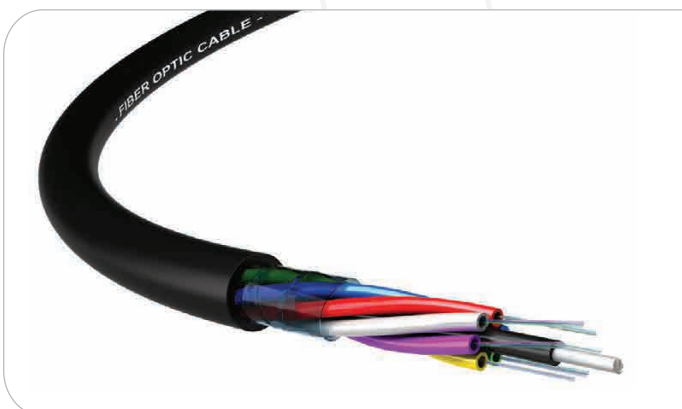
EP TEF4463 is a two component epoxy adhesive which is designed for bonding hard to bond substrates such as Teflon, Rulon, PE, PP with high temperature, chemically and corrosive resistant properties.

BASE	EPOXY
COLOR	CLEAR
VISCOSITY	4000-500 Cps
TEMPERATURE RESISTANCE	-50°C +260°C <i>(SHORT-TERM RESISTANT UP TO 800°C)</i>

EP2050

EP2050 is a two component, 1:1 easy mix ratio, solvent free epoxy adhesive with semi rapid drying properties.

BASE	EPOXY
COLOR	CLEAR
VISCOSITY	4000-5000 Cps
POT LIFE	20 min
HANDLING STRENGTH	60 min
TEMPERATURE RESISTANCE	-50°C +100°C
FULL CURE	24 hour



EP466FO

EP466FO is a 2K epoxy adhesive system which resists high temperature up to 240°C. Product is designed for semiconductor, hybrid, fiber optic and medical applications. EP466FO has good bonding properties to metals and many plastics.

BASE	EPOXY
COLOR	REDDISH AMBER
VISCOSITY	3000-5000 Cps
FULL CURE	10 min (100°C)
TEMPERATURE RESISTANCE	-55°C +240°C
HARDNESS	80-90 (Shore D)



EP3330

EP 3330 is a complete product of unfilled 2K-Epoxy adhesive. This product is available in different viscosities. The product can be cured by thermal heat or at room temperature. The product is suited for many different applications and has a good temperature resistance.

BASE	EPOXY
COLOR	BROWN
VISCOSITY	900K-1000K Cps
FULL CURE	24 hour
TEMPERATURE RESISTANCE	-65°C +150°C
LAP SHEAR STRENGTH	19,3 MPa

EP LT282

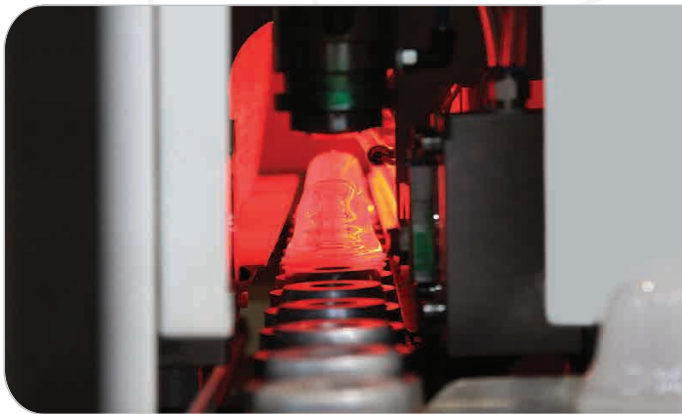
EP LT282 is a two component, room temperature cure toughened epoxy adhesive. It is also a very versatile general purpose epoxy adhesive and has excellent adhesion to glass, metals, plastics, composites and ceramics. Specially formulated for low temperature

BASE	EPOXY
COLOR	BLACK
VISCOSITY	GEL
FULL CURE	72 hour
TEMPERATURE RESISTANCE	-75°C +100°C
HARDNESS	75 (Shore D)

EP3333

EP 3333 is a complete product of unfilled 2K-Epoxy adhesive. The product can be cured by thermal heat or at room temperature. Special characteristic is the low shrinkage and the excellent resistance against moisture, solvents and acids.

BASE	EPOXY
COLOR	AMBER
VISCOSITY	20K-25K Cps
FULL CURE	24 hour
TEMPERATURE RESISTANCE	-65°C +150°C
LAP SHEAR STRENGTH	19,3 MPa



EP HT203

EP HT203 is a two-component 100% solid epoxy resin, which can be used for casting, potting and bonding applications. EP HT203 has an excellent high temperature resistance. Product can be cured at room temperature.

BASE	EPOXY
COLOR	AMBER
VISCOSITY	1000-1200 Cps
TEMPERATURE RESISTANCE	-40°C +260°C
FULL CURE	24 hour
HARDNESS	90 (Shore D)





STEEL-POXY STICK

Steel-Poxy is a two component hand kneadable non-rusting steel filled epoxy putty which can repair and rebuild anything made of steel and metal. Steel-poxy cures to a steel color.

COLOR	STEEL GREY
WORKING TIME	3-5 min
TEMPERATURE RESISTANCE	-40°C +150°C
HARDNESS	80 (Shore D)
FUNCTIONAL CURE	60 min

PLASTI-POXY STICK

Plasti-poxy is a two component hand kneadable, fast setting epoxy putty which performs a durable bond and long-lasting repair compound on plastic surfaces.

COLOR	OFF-WHITE
WORKING TIME	20-25 min
TEMP. RESISTANCE	-40°C +150°C
HARDNESS	65-75 (Shore D)
FUNCTIONAL CURE	2-3 hours



AQUA-POXY STICK

Aqua-Poxy stick is a two component hand kneadable epoxy putty which can repair and fill damp, wet areas and underwater surfaces.

COLOR	WHITE
WORKING TIME	20-25 min
TEMP. RESISTANCE	-40°C +150°C
HARDNESS	70 (Shore D)
FUNCTIONAL CURE	60 min

ALUM-POXY STICK

Alum-Poxy is a two component hand kneadable non-rusting aluminum filled epoxy putty which can repair and rebuild anything made of aluminum. Alum poxy cures to a aluminum light grey metallic color.

COLOR	LIGHT METALLIC GREY
WORKING TIME	3-7 min
TEMPERATURE RESISTANCE	-40°C +150°C
HARDNESS	80 (Shore D)
FUNCTIONAL CURE	60 min



CONDUCTIVE ADHESIVES & COATINGS

ELTECH SERIES



ELTECH® SERIES CONTAINS ELECTRICALLY CONDUCTIVE AND COATING PRODUCTS WHICH CAN BE USED IN ELECTRICAL AND ELECTRONIC INDUSTRY.



ELTECH 255SI

ELTECH 255SI is a silver plated aluminum and silver blend filled, two component, solvent free silicone based flexible adhesive and sealant for use as a fillet gap filler and seam sealant on electrical enclosures for EMI shielding or electrical grounding.

BASE	SILICONE	
COLOR	SILVER	
VISCOSITY	PASTE	
VOLUME RESISTIVITY (Ω-cm)	0,028	
TEMPERATURE RESISTANCE	-65°C +200°C	
FULL CURE (°C)	25	24 hour
	65	2 hour
	100	30 min

CODE	BASE	VISCOSITY (Cps)	OPERATING TEMP. (°C)	VOLUME RESISTIVITY (Ω-cm)	FULL CURE (°C)									PROPERTIES
					25	50	65	80	100	120	125	150	175	
142	POLYMERIC/Ag	PASTE	-55, +150	0,00004	-	30min	-	10min	5min	-	3min	1min	-	Electrically conductive coating for Mylar flexible surfaces.
152	POLYMERIC/Ag	10.000 Cps	-50, +200	0.00003	-	30min	-	10min	5min	-	3min	1min	-	Superior Electrically conductive coating for Mylar flexible surfaces.
230He	EPOXY/Ag	PASTE	-55, +200	0.0001	-	-	-	90min	-	15min	-	5min	45sec	Two component electrically conductive adhesive for general usage.
235	EPOXY/Ag	PASTE	-50, +175	0.005 (@25°C)	24hour	-	60min	-	30min	5min	-	-	-	Two component electrically conductive adhesive for general usage which can be cure at room temp.
245	POLYMERIC/Ag	PASTE	-55, +200	0,00004	-	30min	-	10min	5min	-	3min	1min	-	One component flexible adhesive which was specially designed for bonding LED to mylar surfaces.



UV/VISIBLE LIGHT CURE ADHESIVES

UV SERIES



UV/VISIBLE LIGHT CURE ADHESIVES ARE ULTRA FAST CURING ONE COMPONENT SYSTEMS, WHICH CURES IMMEDIATELY UNDER CERTAIN ULTRA-VIOLET WAVELENGTH. UV ADHESIVES CAN BE ABLE TO BOND, METALS, GLASS, COMPOSITES AND PLASTICS AS WELL.

UV 8106

Low viscosity UV adhesive for bonding of metal, glass and most engineering plastics.

BASE	URETHANE ACRYLATE
COLOR	CLEAR
VISCOSITY	600-1000
CURING TIME	5 sec
TEMP. RESISTANCE	-50°C +120°C
HARDNESS	45-60 (Shore D)

UV 8209

UV8209 is a water clear UV adhesive designed for bonding plastics such as PC - PMMA - PUR - PVC - PA.

BASE	ACRYLIC
COLOR	CLEAR
VISCOSITY	250-300
CURING TIME	< 3 sec
TEMP. RESISTANCE	-30°C +120°C
HARDNESS	30-35 (Shore D)

UV 7055

UV 7055 is a high viscosity UV adhesive for bonding dissimilar materials.

BASE	ACRYLIC
COLOR	CLEAR
VISCOSITY	3200-3500
CURING TIME	5 sec
TEMP. RESISTANCE	-40°C +120°C
HARDNESS	55-60 (Shore D)

UV 6052

UV6052 designed to bond well to hard to bond plastics like PE, PP, PTFE, PEBAX, HYTREL etc. Very flexible.

BASE	URETHANE ACRYLATE
COLOR	CLEAR
VISCOSITY	2500-3000
CURING TIME	5 sec
TEMP. RESISTANCE	-50°C +150°C
HARDNESS	70-80 (Shore A)

UV 6330

UV 6330 is a high viscosity solvent free adhesive for bonding different materials. Medical grade.

BASE	ACRYLIC
COLOR	CLEAR
VISCOSITY	3000-4000
CURING TIME	4 sec
TEMP. RESISTANCE	-40°C +120°C
HARDNESS	52-62 (Shore D)

UV 7410

UV 7410 is a low viscosity solvent free adhesive for bonding different materials. Medical grade.

BASE	ACRYLIC
COLOR	CLEAR
VISCOSITY	50-100
CURING TIME	2 sec
TEMP. RESISTANCE	-40°C +120°C
HARDNESS	65-75 (Shore D)



CYANOACRYLATE ADHESIVES

CA'TRON SERIES

ADHETRON®
Masterpiece of Adhesives

CA'TRON, GENERAL NAME OF CYANOACRYLATE BASED TRANSPARENT AND INSTANT ADHESIVES. THEY DO NOT REQUIRE A CATALYST OR HEAT CURING.

CA'TRON 1203

High viscosity, multi-purpose, instant cyanoacrylate adhesive for multiple bonding applications.

BASE	ETHYL HYBRID
COLOR	CLEAR
VISCOSITY	1200 - 1650 mPas
TEMP. RESISTANCE	-55°C +82°C
GAP FILLING	0,20



CA'TRON 1220F

CA-TRON 1220F super fast low viscosity wicking grade cyanoacrylate instant adhesive.

BASE	ETHYL
VISCOSITY	2-5 Cps
TEMP. RESISTANCE	-65°C +100°C
GAP FILLING	0,05
CURING TIME	2-8 sec



CA'TRON 1241

It is a medium viscosity, multi-purpose cyanoacrylate based instant adhesive.

BASE	ETHYL
VISCOSITY	25-40 Cps
TEMP. RESISTANCE	-55°C +82°C
GAP FILLING	0,1
CURING TIME	5-10 sec



CA'TRON 2008



It is a medical grade, low-viscosity, multi-purpose instant cyanoacrylate adhesive.

BASE	ETHYL
VISCOSITY	3-5 Cps
TEMP. RESISTANCE	-55°C +95°C
GAP FILLING	0,05
CURING TIME	5-15 sec



CA'TRON 2003



It is a medical grade, medium viscosity, multi-purpose instant cyanoacrylate adhesive.

BASE	ETHYL
VISCOSITY	30-60 Cps
TEMP. RESISTANCE	-55°C +95°C
GAP FILLING	0,1
CURING TIME	5-7 sec

CA'TRON 2150



It is a medical grade, high-viscosity, rapid cyanoacrylate adhesive for multiple bonding applications.

BASE	ETHYL
VISCOSITY	1500-1850 Cps
TEMP. RESISTANCE	-55°C +95°C
GAP FILLING	0,05
CURING TIME	10-12 sec



CA'TRON BLACK

Rubber toughened instant adhesive formulated with a unique elastomer filler which maximizes impact, vibration, and peel resistance while providing tough flexible bonds.

BASE	ETHYL
VISCOSITY	3000-4000 Cps
TEMP. RESISTANCE	-55°C +125°C
GAP FILLING	0,5
CURING TIME	10-30 sec

CA'TRON FASTSET

FastSET is a chemical, formulated to shorten the bonding time of cyanoacrylate adhesives and also to increase their filling capabilities.

CA'TRON GEL

Instant cyanoacrylate adhesive is a fast curing and high viscosity product with excellent gap filling properties.

BASE	ETHYL
VISCOSITY	80K-120K Cps
TEMP. RESISTANCE	-65°C +100°C
GAP FILLING	3
CURING TIME	30-120 sec

CA'TRON PRIMER

Adhesive surface preparation for thermoplastics, silicones and polymers with low surface tension.

ASPECT	LIQUID
COLOR	CLEAR

SILICONES

SILICONE COATING - POTTING



SINGLE OR TWO COMPONENT SILICONE BASED POTTING, COATING OR GASKETING PRODUCTS.



ADDY-SIL 562

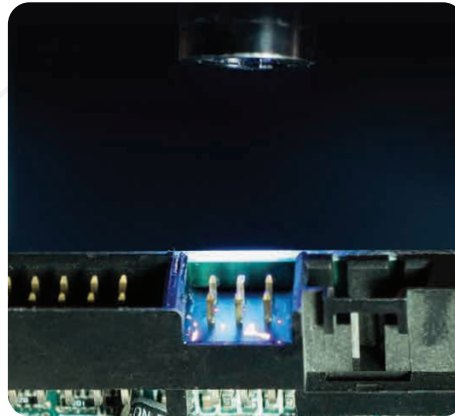
Two component, room temperature cure silicone potting and encapsulation compound with an excellent thermal conductivity properties.

BASE	SILICONE
COLOR	WHITE
VISCOSITY	2500-3000 Cps
TEMPERATURE RESISTANCE	-65°C +150°C
HARDNESS	50 (Shore D)
THERMAL CONDUCTIVITY	1,0 W/mK

UV-SIL RTV 3011

Non-corrosive, single-component silicone elastomer will cure to a very soft rubber upon exposure to either an ultra-violet light source, or to atmospheric moisture.

BASE	SILICONE
COLOR	AMBER/CLEAR
VISCOSITY	1500-2500 Cps
TEMP. RESISTANCE	-40°C +200°C
DIELECTRIC STRENGTH	400 Volt/mil



UV-SIL RTV 3022

Dual-cure product formulated for potting, encapsulating and coating electronic parts.

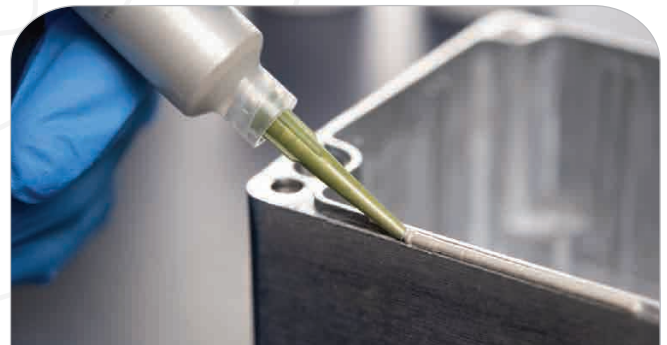
BASE	SILICONE
COLOR	AMBER/CLEAR
VISCOSITY	4000-5000 Cps
TEMP. RESISTANCE	-40°C +200°C
DIELECTRIC STRENGTH	424 Volt/mil



CONDYSIL 752

CONDYSIL 752 is a semi-flowable, single component alkoxy silicone sealant designed for potting and encapsulation applications.

BASE	SILICONE
COLOR	TRANSLUCENT
VISCOSITY	35000-45000 Cps
TEMPERATURE RESISTANCE	-40°C +200°C
HARDNESS	10-20 (Shore A)



ELTECH 255SI

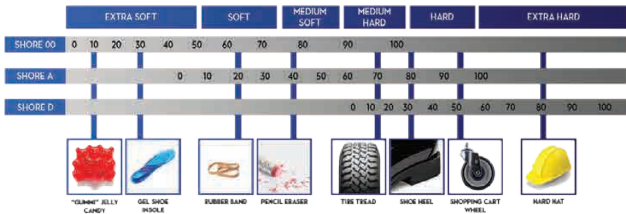
ELTECH 255SI is a silver plated aluminum and silver blend filled, two component, solvent free silicone based flexible adhesive and sealant for use as a fillet gap filler and seam sealant on electrical enclosures for EMI shielding or electrical grounding.

BASE	SILICONE	
COLOR	SILVER	
VISCOSITY	PASTE	
VOLUME RESISTIVITY (Ω -cm)	0,028	
TEMPERATURE RESISTANCE	-65°C +200°C	
FULL CURE (°C)	25	24 hour
	65	2 hour
	100	30 min

PRACTICAL INFORMATION

CONVERSION CHARTS

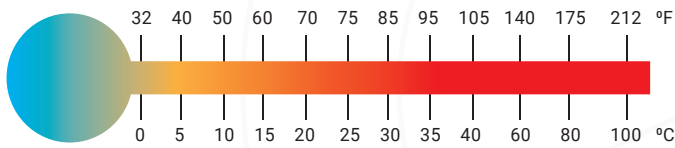
Hardness Shore Durometer Scale



Volume Conversion Chart

1 gal (U.S. liquid)**	L*	3.785.41
1 qt (U.S. liquid)	mL	946.353
1 pt (U.S. liquid)	mL	473.177
1 fl oz (U.S.) mL		29.5735
1 gal (U.S. liquid)	m³	0.003.785

** 1 gallon (UK) approx 1.2 gal (U.S.)
1 liter approx 0.001 cubic meters



Dot Volumes



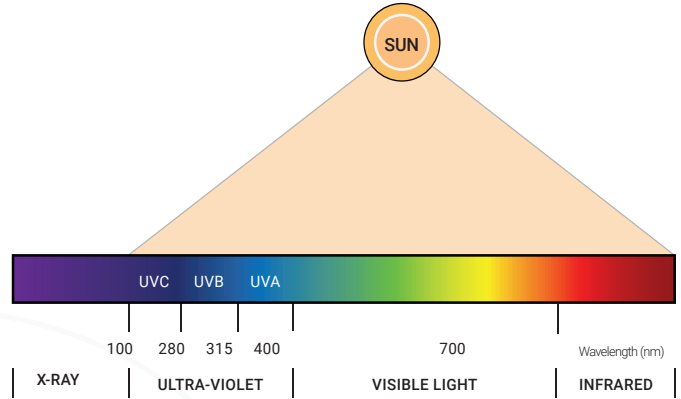
$$\text{Volume} = D^3 \times 0.5236 / 2^*$$

(* 1/2 the volume of a sphere)

Dot	mm	V cc
·	0.5	0.00003
·	0.8	0.0001
·	1.0	0.0003
·	1.3	0.0005
·	1.8	0.001
·	2.3	0.003
·	2.8	0.006
·	3.3	0.009
·	3.8	0.014
·	4.3	0.021
·	4.8	0.029
·	5.6	0.046
·	6.1	0.059
·	6.6	0.075

Dot	mm	V cc
●	7.6	0.116
●	8.9	0.184
●	10.2	0.275
●	11.4	0.391
●	12.7	0.536
●	19.1	1.810

Spectrum Chart



Volume of Beads

	Bead diameter (mm)	Volume per linear (cc's)
—	1.6	0.050
—	2.4	0.113
—	3.2	0.201
—	4.8	0.453

Viscosity Chart

Substance	Viscosity (mPas)	Substance	Viscosity (mPas)
Water	1	Maple syrup	5.000
Milk	3	Honey	10.000
SAE 10 Motor oil	85-140	Choc. syrup	25.000
SAE 20 Motor oil	140-420	Ketchup	50.000
SAE 30 Motor oil	420-650	Mustard	70.000
SAE 40 Motor oil	650-900	Sour cream	100.000
Castor oil	1.000	Peanut butter	250.000

Strength Conversion Chart

Force	N	din	gf ^s	kgf	lbf
1 N (Newton)	1	10 ⁵	101,972	0,101972	0,224809
1 din	10 ⁵	1	1,0197210 ³	1,0197210 ⁶	2,2480910 ⁶
1 gf (gram-force)	9,80665·10 ³	980,665	1	0,001	2,2046210 ³
1 kgf (kilogram-force)	9,80665	9,80665·10 ⁵	1000	1	2,20462
1 lbf (libre-force)	4,44822	4,44822·10 ⁵	453,592	0,453592	1

ADHETRON® was created in Connecticut U.S.A. by several scientists and entrepreneurs to produce **masterpiece of adhesives**.

This team, which has more than 30 years of experience, analyzes the deficiencies and demands in the market with the knowledge gained over the years and produce products in order to meet market expectations.

Unlike conventional manufacturers, ADHETRON uses digital sales and marketing network and reaches to its customers with a solution-oriented approach by adding today's technologies to traditional products

ADHETRON® with the philosophy "masterpiece of adhesives", started with the production of;

- ✓ Electrically Conductive Adhesives (ICA)
- ✓ UV/Light Cure Adhesives
- ✓ Cyanoacrylate Adhesives
- ✓ Anaerobic Adhesives
- ✓ Silicones
- ✓ Anti-stick Tray Coatings for Powder Metallurgy
- ✓ Epoxy and Acrylic Based Structural Adhesives

with high technology and new production techniques.

ADHETRON's R&D and manufacturing facilities are in Connecticut U.S.A., Great Britain, Japan and conducts global marketing and distribution network from Turkey.

Adhetron responds to commercial requests through its distribution partners. Pulsar Chem. Industry & Trade Co. Inc. is the master distribution partner for Adhetron products.

For commercial Request: sales@pulsar.com.tr

ADHETRON®
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