

INDUSTRIAL ASSEMBLY SOLUTIONS

vol1



THE CHEMENCE STORY

1983

A company is formed, and an innovator arrives: Founder Hugh V. Cooke established Chemence® Ltd. in the United Kingdom, as a specialty manufacturer of industrial adhesives and sealants.

Pioneering thinking and design from the very beginning: Chemence® Ltd. develops special adhesives that can seal gas mains under live conditions.

Immediate partnerships and success: Chemence® Ltd. quickly becomes a key supplier of private-label adhesives to a number of major companies including Tesco, 3M, Bostik, Bondo, and others.

The beginning of an incredible legacy: Chemence® Ltd. remains the principal supplier to British Gas to this day.

1989

Branching out to America: Chemence® Inc. was formed in Ohio, with the intent of becoming a distributor for companies based in the United States.

1993

New home, bigger facility, brighter future: Chemence® Inc. relocates to a 100,000-square-foot manufacturing facility in Georgia, and becomes the only manufacturer of cyanoacrylate in the United States.

1994

Expanding into new fields: Chemence Medical Products® Inc. is formed, and manufactures its own product line of medical adhesives, as well as those of other medical companies, to this day.

1998

Taking innovation to new levels: Chemence® Inc. becomes QS-9000 compliant and a key supplier to Tier 1 and 2 OEMs.

Breaking new ground... and saving lives: CMPI creates and develops a patented variant of superglue used to repair inoperable aneurysms in the brain.

2000

Adding even more industrial firepower: Chemence® acquires Polyfibrion's liquid photopolymer business.

2011

Spreading into more areas: Chemence® purchases Indiana Clearstamp, relocates the facility to Dalton, GA, and opens a photopolymer platemaking facility for the craft and hobby industry, one of only a few of its kind in the US, under the name "Clearstamp by Craffiti."

2014

Extending our reach: CMPI adds in-house molding capabilities further maintaining the integrity of our internally manufactured adhesives and packaging.

Establishing a global presence: Chemence® purchases platemaking shops across Europe, including MediaFlex in Spain, VW Graphics and Outline Imaging in the UK. A strategic partnership with Smurfit Kappa's European trade shops is formed.

A year of incredible success: Gross annual sales for Chemence® reach nearly \$100 million, with a staff largely comprised of senior chemists, R&D, and product development specialists. In 2014, Chemence® is one of the top suppliers of photopolymer and commercial printers to the flexographic industry both in the US and in Europe.

Racking up patents left and right: Between 1990 and 2014, Chemence®, Inc., holds a catalogue of more than 24 patents, which include proprietary processes, packaging devices, and chemical combinations.

2015

Introducing new products: Chemence® introduces KRYLEX®, its own formulation based on Ritelok developed for 3M.

2017

Another expansion: Chemence® relaunches KRYLEX® adhesive line for industrial manufacturing.

SUSTAINABILITY SOLUTIONS

As the global population continues to grow, unprecedented challenges in sustainability demand innovative, efficient, and critical solutions of industry leaders. Tough problems must be met squarely with critically valid solutions. Chemence's business priority and mission statement underscore the invaluable integration of long-term thinking with application, science-driven innovation with relevance, and professional expertise with consumer's demands.

■ **Chemence® stands at the quintessential forefront of manufacturing efficiencies for both industrial and consumer uses and applications.** As an independent, family owned company providing outstanding and ground-breaking chemical technologies since 1984, Chemence® has boldly ventured into innovative processes for a breadth of chemical solutions: high performance instant adhesives, i.e., cyanoacrylates and light cure adhesives; anaerobic compounds and sealants for manufacturing and consumer applications; liquid photopolymers for the graphics industry and more. At the heart of every Chemence® product is polymerizable chemistry, the foundational chemical reaction that turns liquids into solids. Chemence® is fundamentally committed to meeting industrial and consumers' needs in applicable, efficient, and cost-effective technologies.

■ **Chemence's in-house research, testing, and development has advanced and enhanced chemical processes in an ever-changing responsiveness to global demands with staunch priorities to environmental responsibilities.** Preeminent chemists and technicians ensure superior and uncompromising product consistencies, performances, and qualities. Chemence's facilities in both the United States and the United Kingdom service clients globally. Chemence's facilities for production include ISO 9001:2000 and/

or ISO 13485 certifications. Customers and endorsements include a spectrum of renown industries ranging from major automotive manufacturers to surgeons using topical wound adhesives to high end consumer electronics.

■ **Our primary environmental focus is to significantly reduce the amount of polyester and plastics from landfills.** This effort is reinforced by employing proprietary manufacturing techniques that eliminate the needs for solvents in both manufacturing and product yields. Chemence® manufacturing facilities have zero solvent emissions. Several patented products and processes were developed to eliminate waste while improving production time and cost. Chemence's unwavering thirty-year commitment to excellence will continue purposefully, professionally, and prodigiously to benefit future generations.



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CYANOACRYLATES

KRYLEX® cyanoacrylates are manufactured by Chemence® in ISO accredited plants operated around the world.

The company is a world leader in cyanoacrylate technology research and has developed well over 150 grades of cyanoacrylate based on ethyl, methyl, n-propyl, isopropyl, n-butyl, isobutyl, and alkoxy-ethyl technologies. These range from high purity medical grades to high performance rubber toughened - impact resistant products. Chemence® cyanoacrylates have been formulated to bond a wide range of similar and dissimilar substrates and include surface insensitive and high temperature formulations, as well as low odor/bloom and two component products. KRYLEX® cyanoacrylate adhesives are the first choice of production and design engineers for their speed, strength and versatility of applications.

CYANOACRYLATES

Product	Category	Monomer	Viscosity (cPs) ^{A,B}	Tensile Strength (psi) ^{A,B}	Fixture Time (s) ^{A,B}
KB204	General Purpose	Ethyl	5	3100	15
KB9541	General Purpose	Ethyl	40	3340	15
KB044	General Purpose	Ethyl	100	3350	25
KB0444	General Purpose	Ethyl	600	3350	25
KB164	General Purpose	Ethyl	1500	3165	35
KB224	General Purpose	Ethyl	2500	3165	35
KB094	General Purpose	Ethyl	Gel	3500	50
KB934	General Purpose	Methyl	5	3210	20
KB304	General Purpose	Methyl	40	3210	25
KB964	General Purpose	Methyl	100	2900	30
KB154	General Purpose	Methyl	1500	3210	40
KB760	General Purpose	Ethyl	150	2900	15
KB0641	Extra Fast	Ethyl	5	2900	15
KB0643	Extra Fast	Ethyl	20	2900	20
KB0141	Extra Fast	Ethyl	100	3100	25
KB064	Surface Insensitive	Ethyl	5	3340	25
KB0642	Surface Insensitive	Ethyl	20	3340	25
KB9542	Surface Insensitive	Ethyl	40	3340	25
KB014	Surface Insensitive	Ethyl	100	3100	25
KB314	Surface Insensitive	Ethyl	600	3350	25
KB1641	Surface Insensitive	Ethyl	1500	3350	25
KB544	Surface Insensitive	Ethyl	Gel	2500	120
KB0624	Plastic & Rubber	Ethyl	5	2950	15
KB954	Plastic & Rubber	Ethyl	40	3340	15
KB244	Plastic & Rubber	Ethyl	100	3150	25
KB4714	Plastic & Rubber	Ethyl	600	3350	25
KB1614	Plastic & Rubber	Ethyl	1500	3165	35
KB823	Plastic & Rubber	Ethyl	4000	2900	45
KB084	Low Odor	Methoxyethyl	5	2460	35
KB604	Low Odor	Methoxyethyl	100	2600	20
KB034	Low Odor	Methoxyethyl	1000	2600	40
KB554	Low Odor	Methoxyethyl	Gel	2600	40
KB064-LO	Low Odor	Methoxyethyl	5	2550	10
KB014-LO	Low Odor	Methoxyethyl	100	2900	15
KB314-LO	Low Odor	Methoxyethyl	600	2360	15
KB2034	High Temperature	Ethyl	100	3340	25
KB984	High Temperature	Ethyl	500	3340	25
KB150C	High Temperature	Ethyl	400	1950	10
KB803	Toughened	Ethyl	300	3400	90
KB804	Toughened	Ethyl	600	3100	90
KB1054	Toughened	Ethyl	3500	2900	90

^A The data contained herein are furnished for information only and believed to be reliable. It is the user's responsibility to determine product suitability for any specific applications.

^B On mild steel

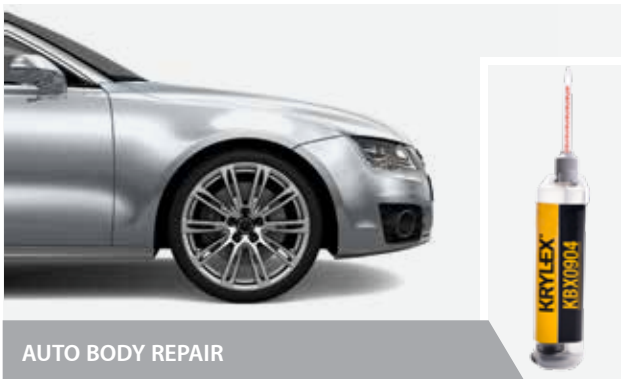
TWO COMPONENT CYANOACRYLATES

Product	Key Characteristic	Mixed Viscosity	Tensile Strength (psi) ^{A,B}	Fixture Time (s) ^{A,B}	Open Time (min) ^{A,C}
KBX0903	General Purpose Bonding	Gel	3045	30	45
KBX0923	Metal Bonder	Gel	3190	30	45
KBX0904	High Toughness	Gel	2830	30	6
KBX9024	200% Elongation	Gel	725	60	8

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^B On mild steel

^C In mix nozzle





MACHINERY ADHESIVES

Chemence® is a world leader in the production and development of machinery adhesives and sealants.

The company synthesizes the base resins in manufacturing plants located outside of Atlanta, Georgia and London, England. All products are manufactured to the rigorous requirements of ISO 9001 International Quality Standard. Chemence® anaerobics are used by the US Military and have been awarded several major Automotive approvals, as well as Water Authority and worldwide Gas Board approvals.

THREADLOCKERS

KRYLEX® threadlockers provide superior reliability over mechanical locking devices in the assembly of threaded fasteners at a lower overall cost. The anaerobic liquid is applied to the threads of a fastener and cures into a hard, thermoset plastic—locking the assembly together and preventing unwanted movement, leaking and corrosion.



Product	Category	Key Characteristic	Color	Viscosity (cPs) ^A	Temperature Limit ^A	Torque Break/Preval (N.m) ^{A,B}
KT0222	Threadlocker	Low Strength, Small Fasteners to ¼"	Purple	3000	150°C	8.0/3
KT422	Threadlocker	Medium Strength, Bolts ¼" to ¾"	Blue	1200	150°C	17/11
KT432	Threadlocker	Medium Strength, Oil Tolerant	Blue	7000	150°C	19/10
KT622	Threadlocker	High Strength, Fasteners to ¾"	Blue	4000	150°C	25/15
KT702	Threadlocker	High Strength, Permanent	Green	500	150°C	34/40
KT712	Threadlocker	High Strength, Fasteners to 1"	Red	500	150°C	40/40
KT722	Threadlocker	High Strength, High Temperature	Red	15000	230°C	26/26
KT772	Threadlocker	High Strength, Fasteners 1"+	Red	7000	150°C	40/40
KT902	Threadlocker	Medium Strength, Wicking Grade	Green	10	150°C	21/44

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^B M10 black oxide steel bolt and M10 bright steel nut

RETAINING COMPOUNDS

KRYLEX® retaining compounds are used in the assembly of all coaxial components such as bearings, gears, shafts, bushes, pulleys, cylinder liners and rotors. They increase the load bearing characteristics of cylindrical joints, reducing assembly stresses and assembly costs.



Product	Category	Key Characteristic	Viscosity (cPs) ^A	Max Gap Fill (mm) ^A	Temperature Limit ^A	Shear Strength (N/mm ²) ^{A,B}
KR016	Retaining Compound	Press Fit, General Purpose	125	0.2	150°C	21
KR206	Retaining Compound	High Temperature, High Viscosity	15000	0.4	230°C	24
KR356	Retaining Compound	Slip Fit, High Strength, Slow Cure	2000	0.4	150°C	26
KR406	Retaining Compound	High Temperature, Fast Cure	600	0.3	205°C	17
KR606	Retaining Compound	Press Fit, Work Shaft & Housing Repair	Paste	1.3	150°C	19
KR806	Retaining Compound	Slip Fit, High Strength, Fast Cure	1600	0.4	150°C	26
KR386	Retaining Compound	Maximum Strength, Permanent	2500	0.25	150°C	27
KR416	Retaining Compound	Bearing Mount	600	0.25	200°C	10
KR538-S	Retaining Compound	Ultra High Temperature	600	0.5	1000°C	22

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^B Steel pin and collar

THREAD SEALANTS

KRYLEX® thread sealants are designed for thread and pipe sealing, replacing traditional PTFE tapes and dopes. Products seal instantly and will not shred, evaporate or shrink. KRYLEX® sealants resist pressure, vibration and temperature cycling as well as hydraulic fluids, oils, fuel and lubricants.

Product	Category	Key Characteristic	Color	Viscosity (cPs) ^A	Temperature Limit ^A
KS655	Thread Sealant	Low Strength, Easy Disassembly	White	300000	150°C
KS675	Thread Sealant	High Temperature, for Stainless Steel	Cream	475000	150°C
KS775	Thread Sealant	Medium Strength	White	350000	205°C
KS425	Thread Sealant	Low Viscosity, High Pressure	Brown	500	150°C
KS925	Thread Sealant	Slow Cure, Anti-Galling	White	350000	205°C
KS455	Thread Sealant	Medium Viscosity, High Pressure	Purple	14000	150°C
KS695	Thread Sealant	Low Viscosity, High Pressure	Brown	425	150°C

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GASKET MAKERS

KRYLEX® gasket makers create form in place gaskets on flanges and housing, eliminating the need for large inventories of pre-cut gaskets. Once cured, the product keys into the adjacent faces of the joint. KRYLEX® gasket makers will not relax or shrink and have exceptional pressure and solvent resistance.

Product	Category	Key Characteristic	Color	Viscosity (cPs) ^A	Temperature Limit ^A	Fixture Time (min) ^{A,B}
KG105	Gasket Maker	High Temperature, High Viscosity	Red-Orange	425000	150°C	20
KG155	Gasket Maker	General Purpose, Flexible	Purple	350000	150°C	60
KG185	Gasket Maker	Medium Strength, Flexible	Purple	500000	150°C	35
KG745	Gasket Maker	Low Strength, Form in Place	Orange	30000	150°C	60

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^B On mild steel



POLYURETHANE HOT MELTS

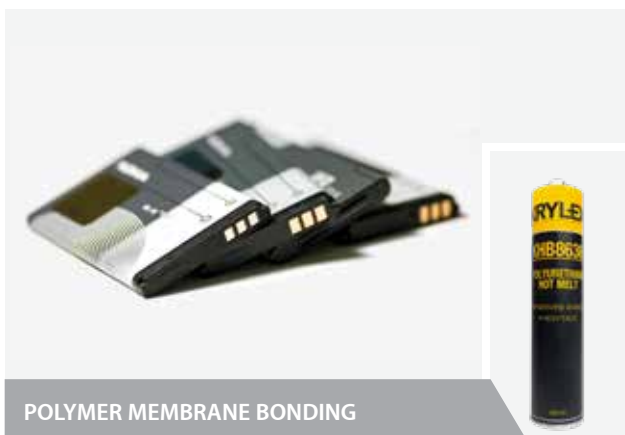
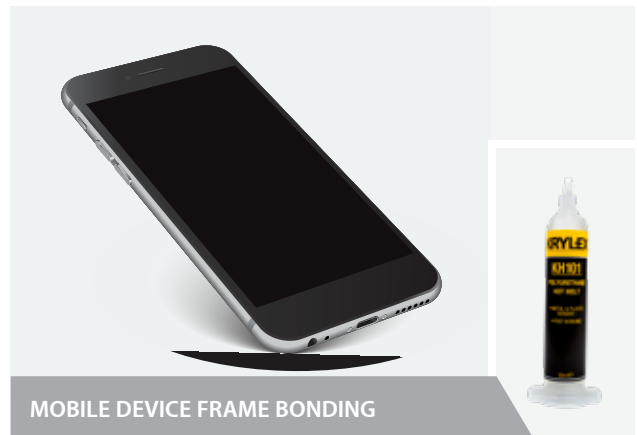
Today's consumer and industrial electronics assemblies are evolving at lightning speeds.

KRYLEX® polyurethane hot melts are specially formulated to solve the most complex issues facing electronics manufacturers today. KRYLEX's line of polyurethane hot melts have been proven in applications ranging from hand held device assembly to battery assembly and more. With a range of products offering everything from high thermal conductivity to excellent adhesion to battery polymer membranes, KRYLEX® polyurethane hot melts are the solution you need. Ask your local KRYLEX® representative about additional color options on our products as well.

POLYURETHANE HOT MELTS

Product	Key Characteristic	Viscosity @120°C ^A	Open Time (min) ^A	Green Strength @ 5min (Mpa) ^A	Final Strength @ 24hr (Mpa) ^A
KH101	High green strength	4000	3	1	8
KH102	High green strength	8000	1.5	1.2	7.3
KH106	High final strength	6000	10	0.5	8.4
KH108	High final strength	3500	10	0.5	8.5
KH109	Good general purpose	3000	4	0.7	8
KH301	Exceptional metal adhesion	6000	3	0.5	7
KH201	Reworkable	5000	2.5	0.7	6.5
KH202	Reworkable	4000	2.5	0.7	6.5
KH501	UV curable, black color	3000 @60°C	10 (W/O UV)	2 (After UV)	7.5
KH401	High tack, jettable	2000 @100°C	1	1	7.5
KHC18226	Thermal conductivity of 0.5W/mK	15500 @160°C	0.5	0.02	4.5
KHB8636	High tack, battery membrane bonding	8000	3	1.5	7.5
KHB8642	High tack, battery membrane bonding	12000	4	1.6	8.2

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SILICONES

The Chemence® line of KRYLEX® silicone adhesives and sealants is designed to provide valuable solutions to today's unique manufacturing issues.

KRYLEX® silicones offer the unparalleled flexibility and heat and weathering resistance demanded by design engineers. In addition to the superior performance in traditional materials properties, the KRYLEX® silicone product line offers several specialty features such as high thermal conductivity, high electrical connectivity, exceptional plastic adhesion and more.

SILICONES

Product	Category	Key Characteristic	Color	Viscosity (cPs) ^A	Durometer ^A	Tack Free Time (min) ^A
KS715	Acetoxly	Fast Cure, Excellent Adhesion	Gray	500000	A38	12
KS915	Acetoxly	Fast Cure, Excellent Adhesion	Red	500000	A38	12
KS130	Oxime	Excellent Plastic Adhesion Including Tygon® & Polyolefins	White	400000	A35	20
KSC2040	Oxime	Thermally Conductive, Excellent Adhesion	Gray	600000	A40	20
KSC1202	Pt Catalyzed	Two Part, Thermally Conductive	White/Pink	150000	00 70	60 (5 @ 150°C)
KSC1802	Pt Catalyzed	Two Part, Thermally Conductive	White/Pink	14000	00 70	60 (5 @ 150°C)
KS12028	Pt Catalyzed	Repenetrable Gel/Low Viscosity	Clear	1000	N/A	120 (15 @ 150°C)

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LIGHT CURE ADHESIVES

Chemence® is at the forefront of photopolymer technology. The company has optimized an extensive range of formulations for bonding, tacking, sealing, coating, encapsulation, lamination and potting.

A key feature of Chemence® light cure resins is that they cure at very low levels of light intensity and yet still offer outstanding properties. Chemence® has developed light curing resins for printing, medical use and general industrial assembly.. Light curing compounds with secondary moisture curing for shadowed areas are also available. These products are used extensively in the automotive and electronics industries as well as on jewelry, ornaments and glass.

LIGHT CURE ADHESIVES

Product	Category	Key Characteristic	Color	Viscosity (cPs) ^A	Depth of Cure (mm) ^A	Cure Type
KU503	Acrylic	Excellent Adhesion, High Toughness	Clear	7000	2	UV
KU1053	Acrylic	PVC & PC Bonder, Flexible	Clear	250	2	UV
KU3453	Acrylic	High Strength Glass/Metal Bonder	Clear	1500	2	UV
KU1055	Acrylic	Flexible, Fast Cure	Clear	3300	3	UV
KU223	Acrylic	Excellent Adhesion, High Toughness	Clear	3250	4	UV
KU1153	Acrylic	Tack-Free Cure	Clear	1750	5	UV
KU3064	Cyanoacrylate	Dual Cure, Non-Irritant	Transparent/ Green	20	10+	UV/Vis, moisture
KU3104	Cyanoacrylate	Dual Cure, Non-Irritant	Transparent/ Green	150	10+	UV/Vis, moisture
KU3114	Cyanoacrylate	Dual Cure, Non-Irritant	Transparent/ Green	800	10+	UV/Vis, moisture

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PRIMERS | ACCELERATORS | CLEANERS

KRYLEX® primers and activators have been designed to be environmentally friendly without sacrificing product performance.

KRYLEX® activators and primers for cyanoacrylate adhesives enhance cure speeds on porous and acidic surfaces, and difficult to bond polyethylene and polypropylene. Used on post assembly applications, KRYLEX® activators permit fillet curing of cyanoacrylate adhesives and promote cure through larger gaps.

KRYLEX® primers for anaerobics have been designed to accelerate the cure speed of anaerobic threadlockers, retaining compounds, thread sealants and gasket makers. They are used on inactive substrates such as anodized metal, stainless steel, zinc and cadmium.

PRIMERS | ACCELERATORS | CLEANERS

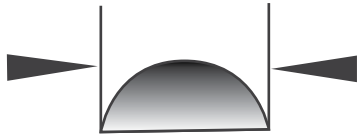
Product	Category	Key Characteristics	Base	Viscosity (cPs) ^A
KP707	Primer	Polyolefin Primer for Cyanoacrylates	Acetone	3
KP1137	Accelerator	Cure Accelerator for Cyanoacrylates	Heptane	5
KP4527	Accelerator	Cure Accelerator for Cyanoacrylates	Acetone	5
KP127	Accelerator	Cure Accelerator for Cyanoacrylates	Alcohol	1
KP4717	Primer	Anaerobic Primer for Threadlockers	Alcohol/Acetone	1
KP4547	Accelerator	Cure Accelerator for Cyanoacrylates	Acetone	2
KP6497	Primer	Anaerobic Primer for Retaining Compounds & Gasket Makers	Acetone	2
KP0637	Cleaner	Cleaner, Degreaser for Bond Surfaces	Heptane	3
KP687	Cleaner	Cyanoacrylate Debonder	Lactone/Pyrrolidone	1

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ADDITIONAL RESOURCES

Dot Volumes



Volume = $D^3 \times 0.5236 \div 2^*$
 (* 1/2 the volume of a sphere)

Volume of Dots				Volume of Dots			
Dot	mm	inches	V cc	Dot	mm	inches	V cc
·	0.5	0.02	0.00003	●	7.6	0.30	0.116
·	0.8	0.03	0.0001	●	8.9	0.35	0.184
·	1.0	0.04	0.0003	●	10.2	0.40	0.275
·	1.3	0.05	0.0005	●	11.4	0.45	0.391
·	1.8	0.07	0.001	●	12.7	0.50	0.536
·	2.3	0.09	0.003	●	19.1	0.75	1.810
·	2.8	0.11	0.006				
·	3.3	0.13	0.009				
·	3.8	0.15	0.014				
·	4.3	0.17	0.021				
·	4.8	0.19	0.029				
·	5.6	0.22	0.046				
·	6.1	0.24	0.059				
·	6.6	0.26	0.075				

Bead Volumes

	Volume of Beads			
	Bead diameter		Volume per linear inch	
	mm	inches	cubic inch	cc's
	1.6	0.06	0.0031	0.050
	2.4	0.09	0.0069	0.113
	3.2	0.12	0.0123	0.201
	4.8	0.19	0.0276	0.453

Conversion Factors

Volume

1 fluid ounce	29.57 cubic centimeters
1 gallon	3785 cubic centimeters
1 gallon	3.785 liters
1 gallon	128 fluid ounces
1 gallon	4 quarts
1 gallon	8 pints
1 gallon	16 cups
1 gallon	231 cubic inches
1 gallon	0.134 cubic feet
1 liter	0.264 gallons
1 liter	1.06 quarts
1 liter	1000 milliliters
1 cubic foot	1728 cubic inches
1 cubic foot	7.48 gallons
1 cubic inch	16.387 cubic centimeters
1 cubic centimeter	1 milliliter
1 microliter	0.001 cc's
1 microliter	1000 nanoliters
1 nanoliter	0.000001 cc's
1 nanoliter	1000 picoliters

Weight

1 kilogram	1000 grams
1 kilogram	2.2 pounds
1 pound	16 ounces
1 pound	453.6 grams
1 pound	7000 grains
1 ounce	28.35 grams

Length

1 micron	0.0000394 inches
1 micron	0.001 millimeters
1 centimeter	10 millimeters
1 centimeter	10,000 microns
1 inch	2.54 centimeters
1 inch	25.4 millimeters
1 inch	25,400 microns
1 foot	30.48 centimeters
1 yard	91.44 centimeters
1 mile	5280 feet
1 mile	1.6 kilometers

Pressure

1 psi	0.069 bar
1 psi	0.070 kgf/cm ²
1 psi	6894.8 Pa
1 psi	27.680 in H ₂ O@4° C

ADDITIONAL RESOURCES

Viscosity is the measurement of a fluid's internal resistance to flow. This is usually designated in units of centipoise or poise, but can be expressed in other measurements as well. The chart below provides example viscosities of common household materials for your reference.

Approximate Viscosities Of Common Materials (at room temperature — 21° C (70° F))	
Material	Viscosity in Centipoise
Water	1 — 5
Kerosene	10
Anti-freeze or Ethylene Glycol	15
Motor Oil SAE10	50 — 100
Motor Oil SAE30 or Maple Syrup	150 — 200
Motor Oil SAE40 or Castor Oil	250 — 500
Motor Oil SAE60 or Glycerin	1,000 — 2,000
Corn Syrup or Honey	2,000 — 3,000
Molasses	5,000 — 10,000
Chocolate Syrup	10,000 — 25,000
Ketchup or Mustard	50,000 — 70,000
Tomato Paste or Peanut Butter	150,000 — 250,000
Shortening or Lard	1,000,000 — 2,000,000
Caulking Compound	5,000,000 — 10,000,000
Window Putty	100,000,000

Conversion Factors	
100 Centipoise	1 Poise
1 Centipoise	1 mPa·s (Millipascal Second)
1 Poise	0.1 Pa·s (Pascal Second)
Centipoise	Centistoke x Density

Typical Assemblies Utilizing Krylex® Adhesives		
Speakers	Gaskets	Flanges
Disposable Medical Devices	Automotive Interiors	Filters
Appliances	Electric Motors	Lighting
Specialty Vehicles	Consumer Electronics	Sporting Goods
Specialty Packaging	Furniture	Agricultural Equipment
Footwear	Architectural Designs	Aerospace



CHEMENCE®
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