

SAUEREISEN

ONDING • ENCL
G • INSULATIN
• COATING • SEA
EALING • ASSEMBL
ONDING • ENCAPULATI
G • INSULATING • COAT
• COATING • SEALING • AS
EALING • ASSEMBLY • EMBEDD
NDING • ENCAPULATING • INSULAT
G • INSULATING • COATING • SEALIN
• COATING • SEALING • ASSEMBLY • E
EALING • ASSEMBLY • EMBEDDING • P
NDING • ENCAPULATING • INSULATING
G • INSULATING • COATING • SEALING
• COAT
EALING

HIGH-TEMPERATURE

Ceramic Compounds & Adhesives

SAUEREISEN

OUR BEGINNING

In 1899, founder, C. Fred Sauereisen developed a signature product that would serve as the core of an entire product line. The **introduction and success of Insa-Lute Adhesive Cement No. 1** launched the Sauereisen Cements company. **Over a century later**, Insa-Lute Adhesive Cement is still used extensively in the automotive and appliance industries. This **legacy of innovation** defines our company and distinguishes Sauereisen in the field of specialty cements. The **third generation owners** and professional management team continue to uphold the historical values and service that represent Sauereisen's strong foundation.

Table of Contents

For 125 years, Sauereisen has maintained a global reputation for excellence through research, innovation, and rigorous quality control. As a leading manufacturer of high-performance specialty cements, we provide solutions that meet the demands of the most challenging applications.

- 02. Company History
- 06. Applications
- 08. Air-set Cements
- 12. Hydraulic-set Cements
- 15. Chemical-set Cements
- 22. Quality Assurance
- 23. Material Selection Guide



If you have an unusual application, we want to hear about it. Let us engineer a solution that meets your needs.



PROVEN PERFORMANCE, TRUSTED QUALITY.

Our extensive portfolio includes **more than 20 inorganic adhesives and potting compounds** formulated to specific performance requirements. Designed for high-temperature applications up to 3000°F (1649°C), Sauereisen products deliver **exceptional bond strength** for ceramic, metal, and glass components across industries such as electrical, mechanical, metallurgical, and sensors/instruments. Our materials ensure durability and reliability in critical **assembly, encapsulation, and sealing applications**.

We are committed to the highest standards in raw material selection, ensuring the purity and consistency of our **proprietary Zircon, Silica, and Alumina fillers**. Every batch undergoes strict quality assurance testing for shrinkage, strength, and working time—guaranteeing reliability and uniform performance from one production run to the next.

All of our products exhibit the following:

FEATURES	BENEFITS
MAXIMUM CONTINUOUS SERVICE TEMPERATURE UP TO 3000°F	Up to 15x the temperature resistance of most epoxies, ensuring durability in extreme environments.
STRONG ELECTRICAL INSULATION PROPERTIES	Dielectric strengths surpassing 100 volts/mil, preventing electrical leakage and enhancing safety.
HIGH THERMAL CONDUCTIVITY	K-Values up to 20 BTU in./ft.² hr. °F for efficient heat transfer in demanding applications.
SUPERIOR THERMAL SHOCK RESISTANCE	Tolerates instantaneous temperature swings in excess of 2000°F.
NON-TOXIC	Odorless formulation with no VOCs for safer handling and environmental compliance.
MULTIPLE DISPENSING METHODS	Material may be applied by pump, brush, syringe or automatic dispensing equipment.

At Sauereisen, quality isn't just a promise—it's our legacy.

APPLICATIONS

LIGHTING

Halogen • Dichroic • HPS Lamps • Metal Halide • Sanitizing Lamps

- Ideal for potting and bonding applications
- Commonly used in ceramic and quartz assemblies
- Designed for materials requiring a low coefficient of thermal expansion
- Optimized for high thermal conductivity applications

Applications Include:

Airport runway directional lamps - Stadium lighting - Work lamps - Stage lighting - Track lighting
Auto headlights - Display & Accent lighting - Copiers & Scanners - Ultraviolet water disinfection
LCD projectors - Operator lamps - Microscopes



THERMOCOUPLES

Disposable Samplers • Sensors • Tips • Tubular

- Embedding quartz into a ceramic component requiring enhanced thermal properties
- Adhesive bonding solution for heat-resistant tape on lightweight substrates
- Protective coating for sampling caps

Applications Include:

Molten metal analysis - Jet engine propulsion - Hot water heaters - Infrared cameras - Crucible furnaces

IGNITORS

Hot Surface • Spark • Silicon Carbide • Silicon Nitride

- Low thermal expansion cement for precise applications
- Provides refractory protection up to 2600°F for high-heat environments
- Ideal for bonding or potting wire into ceramic components
- Designed to withstand low voltage exposure during ignition cycles

Applications Include:

Gas dryers - Gas furnaces - Gas ranges - Water heaters - Gas fireplaces - Outdoor grills



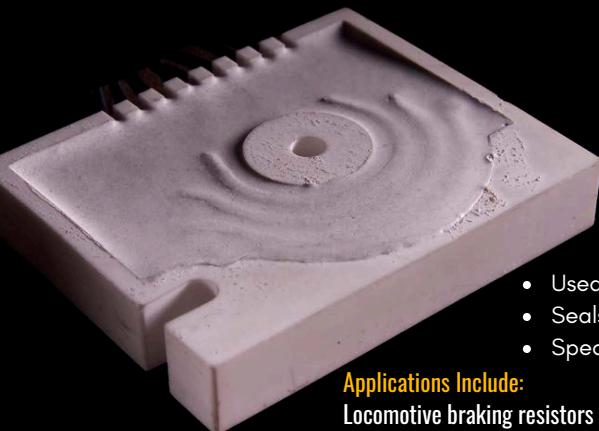
HEATING ELEMENTS

Coils • Cartridge Heaters • Sheath

- Thermally conductive cement that facilitates heat transfer and dissipation
- Secures elements and maintains assembly integrity
- High-temperature resistance alongside superior electrical insulation properties

Applications Include:

Electric kilns - Hot air guns - Cartridge heaters - Soldering irons - Tubular heaters for vessels



RESISTORS

Wire Wound • Boat or Bathtub • Rheostat

- Used for coating, potting, or encapsulation applications
- Seals resistance wires embedded in or applied to a ceramic base
- Specified for electrical insulation

Applications Include:

Locomotive braking resistors - Power resistors - Auto ballast resistors - Motor control - Elevators

HIGH-TEMPERATURE FILTERS

- Adhesive applications for securing high-temperature filter media into stainless steel or aluminum housings
- Ideal for bonding stacked components or internal parts within a filter assembly

Applications Include:

Data centers - Diesel engine exhaust - Clean rooms - Nuclear power facilities



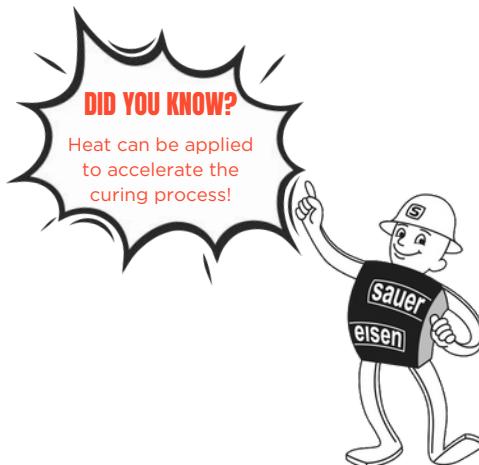
AIR-SET CEMENTS



Air-sets have
unlimited pot
life and are
recommended
for coating and
sealing
applications.

AIR SET CEMENTS

Sauereisen's line of inorganic, high temperature cements includes several air-set products **designed for thin film bonding** and coating applications from 2 to 125 mils. The curing process is driven by evaporation, allowing for an **indefinite working time** with final cure between 18 to 24 hours. These air-set, single-component materials exhibit a consistent viscosity that makes it **ideal for automatic dispensing**.



PRODUCT	MAX SERVICE TEMPERATURE		COEFFICIENT OF THERMAL EXPANSION		DIELECTRIC STRENGTH (@70°F volts/mil) (@21 oC volts/mil)	VOLUME RESISTIVITY (@70°F ohm-om) (@21°C ohm-om)	THERMAL CONDUCTIVITY					
	(°F)	(°C)	(°F)	(°C)			Btu (IT) in/hr/ft ² /°F	kW/(m·K)	1 kcal(th) ·h ⁻¹ ·m ⁻¹ ·°C ⁻¹			
AIR SETS												
1	1800	982	6.20E-06	1.12E-05	12.5 - 51	108 - 109	11.5	7.6	1.66	1.10	1.43	0.94
P-1	1800	982	6.20E-06	1.12E-05	12.5 - 51	108 - 109	10.5	7	1.51	1.01	1.30	0.87
2	3000	1649	7.60E-06	1.37E-05	48 - 55	108 - 1010	23.3	12.6	3.36	1.82	2.89	1.56
3	2200	1204	3.40E-06	6.12E-06	50 -100	106 - 108	23	13	3.32	1.87	2.85	1.61
6	2500	1371	6.50E-06	1.17E-05	12.5 - 51	107 - 108	N/A					
7	2500	1371	6.00E-06	1.08E-05	12.5 - 51	108 - 109	N/A					
19	1800	982	6.50E-06	1.17E-05	N/A	N/A	N/A					
78	2600	1427	3.70E-06	6.66E-06	12.5 - 51	106 - 108	6.8	7.8	0.98	1.12	0.84	0.97
P-78	2600	1427	3.70E-06	6.66E-06	12.5 - 51	106 - 108	5.4	6.2	0.78	0.89	0.67	0.77

1/ P1 INSA-LUTE™ ADHESIVE CEMENT PASTE & POWDER/LIQUID



Sauereisen No.1 inorganic adhesive cement is specified throughout the automotive, appliance and assembly industries for its thermal conductivity and thermal shock resistance. Other properties include electrical insulation and resistant to oils, solvents, and mild acids. This material is available in paste and powder to meet specific user requirements. Ideal for automated applications using dispensing equipment.

Withstands up to 1800°F (982°C)

Non-toxic

Odorless

Strong mechanical bond

Available in paste or 2-part powder/liquid

2 ALUSEAL ADHESIVE PASTE & POWDER/LIQUID

This ceramic adhesive paste offers high bond strength and thermal shock resistant properties for assembling and sealing materials such as porcelain, glass, or metal. No.2 cement consists of fine particles making it ideal for applications where an inorganic bond is required between component parts with a small clearance. Thin film applications exhibit excellent flexural and tensile strength. May be applied by brushing, dipping or spraying. It is also suitable for use on production lines with mechanical dispensers.

Withstands up to 3000°F (1649°C)

Strong mechanical bond

Thermally conductive

Insulating

Available in paste or 2-part powder/liquid

3 TEMPSEAL CEMENT PASTE

No. 3 is an inorganic adhesive paste with high temperature resistance and superior sealing capabilities. TempSeal provides exceptional moisture protection with a significantly lower permeability rates than organic materials. Common uses include heating element and electrical component assembly where extreme operating temperatures coexist with a humid environment.

Withstands up to 2200°F (1204°C)

Moisture-resistant

Thermally conductive

Insulating

Odorless

ELECTRIC HEATER CEMENT POWDER

6

Sauereisen's Electric Heater Cement No. 6 is a versatile high-temperature cement used for refractory coatings, lining furnaces, embedding electric heating elements, coating resistors, molding and insulating. This material resists oils, solvents, and most acids and is thermal shock resistant.

Withstands up to 2500°F (1371°C)

Abrasion resistant

Thermally conductive

Insulating

Odorless

Mix with water

7 INSA-LUTE HI-TEMP CEMENT PASTE

Sodium silicate adhesive cement exhibits outstanding resistance to heat and electricity. Typically used for instrumentation assembly, coating and embedding of resistance wires, and high-temperature insulation. Insa-Lute Hi Temp Cement bonds well to metal, ceramic and glass and resembles a durable ceramic once cured. With a virtually unlimited pot life prior to exposure to air, this material is ideal for automated applications using dispensing equipment.

Withstands up to 2500°F (1371°C)

Odorless

Insulating

Thermal shock resistant

Thermally conductive

ELECTRIC RESISTOR CEMENT PASTE & POWDER/LIQUID

78/ P78

Electrical refractory cement is typically used for coating resistors and coils and embedding resistance wire as a replacement for insulating varnish, enamel, or mica.

No.78 is oil, solvent, and acid resistant in addition to its insulating and conductive properties. This product is available in both powder and paste form with a virtually unlimited pot life prior to air exposure.

Withstands up to 2600°F (1427°C)

Odorless

Thermal shock resistant

Available in paste or 2-part powder/liquid

HYDRAULIC-SET CEMENTS

These calcium aluminate cements are recommended for applications where strong thermal shock resistance is required. A controlled humidity cure enables the materials to develop superior electrical and refractory properties.

HYDRAULIC SET CEMENTS

Engineered to **withstand high-temperatures and minimize shrinkage**, Sauereisen's Hydraulic-set cements are typically used for casting or potting applications. These **single-component, calcium aluminate products** are designed for reliable performance in demanding applications.

The curing process begins within 24 hours in a humid environment.

Taking precautions, such as covering the materials, helps retain moisture and supports the curing process.

You can depend on
SAUEREISEN TECHNICAL CEMENTS

for



ACID PROOFING
INSULATING
ASSEMBLING
PIPE JOINTING
SEALING
COATING
EMBEDDING
MOLDING
HEAT TREATING
CHIMNEY LINING

Used the world over, since 1899, for improving quality, speeding assembly, cutting costs and providing protection against corrosion.

PRODUCT	MAX SERVICE TEMPERATURE		COEFFICIENT OF THERMAL EXPANSION		DIELECTRIC STRENGTH (@70°F volts/mil) (@21 oC volts/mil)	VOLUME RESISTIVITY (@70°F ohm-om) (@21°C ohm-om)	THERMAL CONDUCTIVITY			
	(°F)	(°C)	(°F)	(°C)			Btu (IT) in/hr/ft ² /°F	kW/(m·K)	1 kcal(th) ·h ⁻¹ ·m ⁻¹ ·°C ⁻¹	
HYDRAULIC SETS										
75	2600	1427	4.10E-06	7.38E-06	50 - 60	108 - 109	4.4	4.2	0.63	0.61
76	2600	1427	5.50E-06	9.90E-06	50 - 60	N/A	7.4	6.5	1.07	0.94
									0.55	0.52
									0.92	0.81

HYDRAULIC SET CEMENTS

CALCIUM ALUMINATES

These calcium aluminate cements offer **exceptional refractory properties** and strong **thermal shock resistance**. They are used as potting material for **thermocouples in molten steel**, electrical sealants for resistors, and **reinforced refractory flooring** in gross facilities. Their versatility makes them ideal for high-temperature and high-performance applications requiring durability and thermal stability.

75 ELECTRICAL REFRactory CEMENT POWDER

Calcium aluminate castable cement used as a bonding mortar or refractory coating for high-temperature applications. No. 75 is thermally conductive, insulates at both high and low temperatures, and resists solvents, alkalies, and mild acids. Capable of hardening even in confined areas. May also be cast or gunite applied to protect concrete from thermal shock.

Withstands up to 2600°F (1427°C) Low-shrinkage Mix with water
 Impact and abrasion resistant Odorless Excellent volume stability

ELECTRICAL POTTING CEMENT POWDER

High grade calcium aluminate castable, hydraulically-setting cement used for high-temperature assembly, encapsulation, and potting. No. 76 is thermally conductive as well as corrosion and chemical resistant. It is also electrically insulative and capable of withstanding thermal shock.

Withstands up to 2600°F (1427°C) Odorless Excellent volume stability
 Mix with water

76

CHEMICAL-SET CEMENTS



Sauereisen's chemical-setting products are manufactured with fine grain alumina, zircon and silica fillers making them ideal for the most challenging assembly, encapsulating and sealing applications.

CHEMICAL SET CEMENTS

PHOSPHATE-BONDED

Sauereisen's chemical-set materials are the most **thermally conductive** and **electrically insulating** products available. These cements are best suited for potting, bonding and casting, as it contains a catalyst that ensures a proper cure even through **thick applications**. The curing process can be accelerated with heat to suit the needs of the user. Chemical set products are either single component powders to be mixed with water, or two individually packaged components to be combined prior to use.

PRODUCT	MAX SERVICE TEMPERATURE		COEFFICIENT OF THERMAL EXPANSION		DIELECTRIC STRENGTH (@70°F volts/mil) (@21 °C volts/mil)	VOLUME RESISTIVITY (@70°F ohm-om) (@21°C ohm-om)	THERMAL CONDUCTIVITY			
	(°F)	(°C)	(°F)	(°C)			Btu (IT) in/hr/ft ² /°F	kW/(m·K)	1 kcal(th) ·h ⁻¹ ·m ⁻¹ ·°C ⁻¹	
CHEMICAL-SET: PHOSPHATE-BONDED										
4	2200	1204	6.18E-06	1.11E-05	50 - 56	1011 - 1012		5.47	0.00	0.79
8	2600	1427	2.60E-06	4.68E-06	76 - 101.5	1010 - 1011	8.3	6.7	1.20	0.97
10	2400	1316	5.00E-06	9.00E-06	55 - 63	108 - 1011	16.2	9.7	2.34	1.40
11	2200	1204	3.40E-06	6.12E-06	46 - 54	109 - 1010		4.9	0.00	0.71
12	2200	1204	3.10E-06	5.58E-06	76 - 80	108 - 1010	9.8	7.3	1.41	1.05
13	2600	1427	2.60E-06	4.68E-06	55 - 60	106 - 1011	8	11	1.15	1.59
									0.99	1.36

CHEMICAL SET CEMENTS

PHOSPHATE-BONDED

4 FLOTEMP CEMENT POWDER

Versatile phosphate-bonded potting material used for potting applications where high electrical insulation and thermal conductivity are required. No. 4 is specially formulated to limit the wicking nature of a porous substrate. This will prevent permeation of water into the substrate and the associated volume loss or cavitation of the cement. The need for double filling of ceramic units may be eliminated.

Withstands up to 2200°F (1204°C)

Odorless

Insulating

Thermally conductive

Mix with water

8 ELECTROTEMP CEMENT POWDER

Sauereisen Electrotemp Cement No. 8 is primarily used where high electrical insulation and thermal conductivity are desired. This product is ideal for potting applications subject to high temperatures and/or thermal shock. Formulated with a zircon base, the cement is non-corrosive and compatible for applications with ceramics, glass and most metals. No.8 is supplied in powder form and need only be mixed with water to apply.

Withstands up to 2600°F (1427°C)

Odorless

Thermal shock resistant

Thermally conductive

Mix with water

10 INSULTEMP CEMENT POWDER

This phosphate-bonded material is primarily used where high electrical insulation and thermal conductivity are required. No. 10 is ideal for potting applications subject to high temperature and/or thermal shock. Formulated as an alumina-filled cement, it is non-corrosive and compatible for applications with ceramics, glass and most metals. The material is supplied in powder form and mixes with water to form a cement paste.

Withstands up to 2200°F (1204°C)

Odorless

Thermal shock resistant

Thermally conductive

Low-shrinkage

Mix with water

CHEMICAL SET CEMENTS

PHOSPHATE-BONDED

11 THERMAL POTTING CEMENT POWDER

Sauereisen's No. 11 is primarily used where high electrical insulation and thermal conductivity are required. This material is a chemical-setting cement ideal for potting applications subject to high temperature and thermal shock. It is formulated to be compatible with most metal alloys and has a high electrical resistance. The cement is supplied in powder form and need only be mixed with water to apply.

Withstands up to 2200°F (1204°C) Odorless Thermal shock resistant

Thermally conductive Mix with water

ELECTRIC INSULATING CEMENT POWDER/LIQUID

12

Developed for potting and encapsulation, Electric Insulating Cement is an inorganic cement used for applications requiring high dielectric strength and volume resistivity through 2200°F. This cement offers a low coefficient of thermal expansion making it an excellent cement for bonding or potting high-alumina ceramics. No. 12 is also oil and solvent resistant.

Odorless Withstands up to 2200°F (1204°C) Thermally conductive Low shrinkage

Excellent bond strength Thermal shock resistant 2-part powder/liquid

13 ZIRCON POTTING CEMENT POWDER

No. 13 is primarily used where high electrical insulation and thermal conductivity are desired. This zircon potting cement is ideal for potting applications subject to high temperature and/or thermal shock. Formulated as an economical, zircon-based cement, it is non-corrosive and compatible for applications with ceramics, glass and most metals. The material is supplied in powder form and need only be mixed with water to apply.

Withstands up to 2600°F (1426°C) Odorless Thermally conductive

Thermal shock resistant Mix with water

CHEMICAL SET CEMENTS

SLICATE-BONDED

Silicates exhibit excellent **thermal and dielectric properties**. These cements bond effectively to most ceramic, glass, and metal substrates. Available in both paste and powder forms, they provide **versatile options for different manufacturing needs** and offer reliable performance in demanding environments.

PRODUCT	MAX SERVICE TEMPERATURE		COEFFICIENT OF THERMAL EXPANSION		DIELECTRIC STRENGTH (@70°F volts/mil) (@21 °C volts/mil)	VOLUME RESISTIVITY (@70°F ohm-cm) (@21°C ohm-cm)	THERMAL CONDUCTIVITY			
	(°F)	(°C)	(°F)	(°C)			Btu (IT) in/hr/ft ² /°F	kW/(m·K)	1 kcal(th) ·h ⁻¹ ·m ⁻¹ ·°C ⁻¹	
CHEMICAL-SET: SILICATE-BONDED										
29	1550	843	4.60E-06	8.28E-06	25 - 51	107 - 109	9.8	5.2	1.41	0.75
31	1750	954	6.20E-06	1.12E-05	12.5 - 38	107 - 109	6.5	4.2	0.94	0.61
33S	1600	871	7.80E-06	1.40E-05	37 - 44	107 - 109	5.9	4.5	0.85	0.65
350	1700	927	6.90E-06	1.24E-05	20 - 35	106 - 108	3.8	3.6	0.55	0.52
360	2200	1204	5.50E-06	9.90E-06	20 - 40	107 - 108	6.7	6.4	0.97	0.92
										0.79

CHEMICAL SET CEMENTS

SLICATE-BONDED

29

LOW EXPANSION CEMENT POWDER/LIQUID

Sodium silicate inorganic cement used for embedding heating elements, insulating thermocouples, and coating mechanically sealing parts where high resistance to electricity, chemicals and thermal shock is required. A strong resistance to cryogenic conditions makes No. 29 a common product for aerospace applications. This product consists of a fine particle size for improved flow characteristics and is capable of setting in confined areas.

Withstands up to 1550°F (843°C) | Cryogenic resistant | Insulating | Odorless
 Thermally conductive | Thermal shock resistant | 2-part powder/liquid

CEMENT POWDER

31

Sauereisen Cement 31 is a white, porcelain-like cement is widely used for a variety of applications including assembling, sealing, insulating and cementing of ceramics, porcelain, metal, and glass. This material adheres to all surfaces and is oil, solvent, and acid resistant. No. 31 is also fire and gas proof.

Thermally conductive | Thermal shock resistant | Odorless
 Withstands up to 1750°F (940°C) | Mix with water

33S

SEALING CEMENT POWDER

A chemical-setting, inorganic, silicate-based cement that is used for assembly/sealing applications common to electrical equipment. It is ideal for coating molds and forms used to produce special shapes and patterns. No. 33S is oil, solvent, and acid resistant. It is supplied in powder form and need only be mixed with water to apply.

Withstands up to 1600°F (870°C) | Thermally conductive | Thermal shock resistant
 Odorless | Insulating | Mix with water

CHEMICAL SET CEMENTS
SILOCATE-BONDED

ELECTRIC REFRACRY CEMENT POWDER/LIQUID 350

Sodium silicate cement specified for high temperature bonding applications. Ideal for assembly and encapsulation of electric elements and induction heating coils. This material can also be used as a wash coating for sand-resin bodies and as a refractory coating. No. 350 may be applied by dipping, spraying, pouring or automatic dispensing.

Withstands up to 1700°F (927°C)

Thermally conductive

Insulating

2-part powder/liquid

360 REFRACRY COATING POWDER/LIQUID

A heat-cured refractory coating for expendable thermocouple tubes and induction furnace linings. No. 360 is capable of withstanding short-term molten metal immersion. This material exhibits excellent coating properties and may be applied by rolling, dipping or casting.

Withstands up to 2200°F (1204°C)

Thermally conductive

Thermal shock resistant

Odorless

Insulating

2-part powder/liquid

30 PLASTIC PORCELAIN

A thermally conductive and electrically insulating cement, it resembles a durable ceramic upon curing and will resist high temperatures. The expanding curing property makes No. 30 a good candidate for potting applications and for filling other hollow cavities.

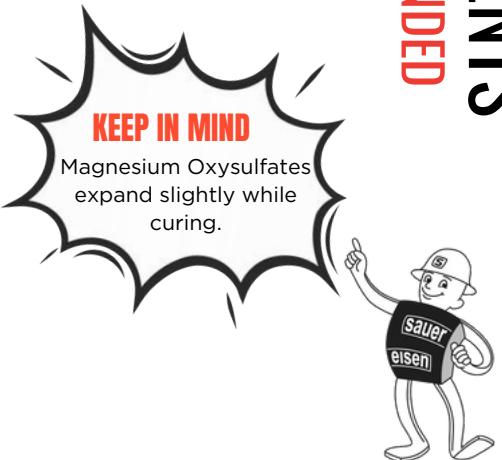
Mix with water

ELECTRICAL CEMENT

The stable nature of Electrical Cement No. DW-30 allows for application within explosion proof fittings. Other recommended uses are cementing knife blades into plastic, ceramic, wood or metal handles, weighting candlesticks or similar cavities, and sealing set screws.

Mix with water

DW30



PRODUCT	MAX SERVICE TEMPERATURE		COEFFICIENT OF THERMAL EXPANSION		DIELECTRIC STRENGTH (@70°F volts/mil) (@21 oC volts/mil)	VOLUME RESISTIVITY (@70°F ohm-om) (@21°C ohm-om)	THERMAL CONDUCTIVITY				
	(°F)	(°C)	(°F)	(°C)			Btu (IT) in/hr/ft ² /°F	kW/(m·K)	1 kcal(th) ·h ⁻¹ ·m ⁻¹ ·°C ⁻¹		
CHEMICAL-SET: MAGNESIUM-OXYSULFATE BONDED											
30	900	482	5.00E-06	9.00E-06	N/A	N/A	5	6	0.72	0.87	0.62
DW-30	900	482	4.70E-06	8.46E-06	N/A	108 - 1010	5.6	5.8	0.81	0.84	0.69
											0.72

CHEMICAL SET CEMENTS
MAGNESIUM-OXYSULFATE-BONDED

NEED LESS VISCOSITY?



14 THINNING LIQUID

Sauereisen Thinning Liquid No. 14 is a soluble sodium silicate solution which is used to reduce the viscosity of various Sauereisen cements, permitting more flowable consistency for dip, spray or brush application.

THE SAUEREISEN STANDARD

By providing engineered systems to our customers, Sauereisen offers a high standard of quality. Our documented **Quality Assurance system assures the highest quality in every step of our manufacturing process**—from inspection of raw materials to production and shipping of finished goods. As an added benefit, Sauereisen's highly skilled laboratory and technical services staff frequently assist in the field where needed. A worldwide network of agent representatives, in conjunction with numerous pre-qualified Sauereisen applicators, help make our engineered systems work for you.

MATERIAL SELECTION GUIDE

Need assistance choosing the right material?

Our Sales and Technical Service personnel can walk you through the below to determine the best ceramic compound for your application.

1. What is the application? (type of unit, equipment, etc.)
2. What degree of electrical resistance is required? (high, moderate or low)
3. What temperature range must the cement withstand? (highest to lowest)
4. What degree of thermal shock resistance is required?
 - How fast does the cement go from one temperature extreme to another?
 - What is the frequency of cycling? (how many times a day, etc.)
 - Is quench employed? (cold air, water, etc.)
5. What degree of thermal conductivity is desired?
6. What degree of thermal expansion is allowable?
7. What materials will the cement contact? (ceramics, glass, metals, etc.)
8. What degree of volume stability is required?
9. Is the cement to be used for casting, coating, bonding, assembling, encapsulation, potting or sealing application, or in some combination of these? Is a thick or thin film more desirable?
10. Is moisture absorption a problem?
11. How do you wish to dispense?
12. What pot life (working time) is required?
13. What set times are desired? Can you force-cure the cement?

WE
ARE
HERE
TO
HELP.



CONTACT US FOR
CONSULTATION.



info@sauereisen.com
412.963.0303

SAUEREISEN.CEMENTS

TECHNICAL COMPO

CELEBRATING

EST.
1899



OVER 125 YEARS