

MATERIAL DATASHEET

V. 3/2026

THERMICULITE® 815

Material Information	
Manufacturer	Flexitallic
Composition	Thermiculite, tanged 316 steel insert
Applications	High Temperature Applications
Approvals	API 607 Fire Safe
Colour	Golden
Thickness (mm)	1,0 to 3,0
Sheet dimensions (mm)	1 000 x 1000, 1 500 x 1 500

Technical Data (1,5 mm thickness)		
Density, (g/cm³)	Compressibility, ASTM F36A (%)	Recovery, ASTM F36A (%)
1,2	44	9
Tensile strength (MPa)	Stress resistance, BS 7531 (MPa)	Specific leak rate, BS 7531 (ml/min)
-	31	0,13
	Compression modulus, DIN 28090-2 (%)	Creep relaxation, DIN 3535-6 (%)
	-	-
Peak temperature (°C/°F)	Continuous temperature (°C/°F)	Maximum pressure (bar/psi)
1 050/1 920	900/1 652	200/2 900

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Recommended Media			
Abietic acid	Castor oil	Glucose	Monoethylene glycol
Acetylene	Caustic soda	Glue	MultiTherm 100
Adipic acid	Caustic potash	Glycerine	MultiTherm 503
Adiponitrile	Cetane	Glycol	MultiTherm IG-2
Air	Chile saltpetre	Glyoxillic acid	MultiTherm PG-1
Aluminium fluoride	China wood oil	Grain alcohol	Naphta
Aluminium hydroxide	Chrome plating solution	Grease	Naphthalene
Ammonia	Citric acid	Green sulphate liquor	Natural Gas
Ammonium hydroxide	Coke oven gas	Heating oil	Nickel sulphate
Ammonium nitrate	Copper sulphate	Heptane	Nitric acid
Ammonium phosphate	Corn oil	Hexadecane	Nitrocalcite
Amyl alcohol	Cotton seed oil	Hexane	Nitrogen
Arsenic acid	Creosote	Hydraulic oil	Norge niter
Arsenous acid	Crude oil	Synthetic oil	n-Octadecyl alcohol
Asphalt	Cyclohexane	Hydrocyanic acid	Octane
Aviation gasoline	Cyclohexanol	Hydrogen	Oil
Barium hydroxide	Detergent solutions	Iodomethane	Oleic acid
Barium sulphide	Diesel oi	Isobutane	Palmitic acid
Beer	Dowanol DB	Isooctane	Paraffin
Benzoic acid	Dowanol EB	Isopropyl alcohol	Paratherm HE
Black sulphate liquor	Dowanol PM	Jet fuel	Paratherm NF
Blast furnace gas	Dowfrost	Kerosen	Pentane
Boiler feed water	Dowfrost HD	Lactid acid	Petroleum oil
Borax	Dowtherm 4000	Lime	Petrol
Boric acid	Dowtherm SR-1	Lime saltpetre	Phosphorus, red
Brine	Dye liquor	Linseed oil	Pinene
Butane	Ethane	Lithium bromide	Polyacrylonitrile
n-Butyl acetate	Ethyl alcohol	Lubricating oil	Potash
n-Butyl acrylate	Ethyl cellulose	Lye	Potassium acetate
Butanol	Ethyl hexanol	Machine oil	Potassium bichromate
Butyric acid	Ethylene	Magnesium hydroxide	Potassium chromate
Calcium bisulphite	Ethylene glycol	Magnesium sulphate	Potassium cyanide
Calcium hydroxide	Ethylene Thiourea	Mercury	Potassium dichromate
Calcium nitrate	Fatty acids	Methane	Potassium hydroxide
Calflo AF	Ferric phosphate	Methanol	Potassium nitrate
Calflo FG	Ferric sulphate	Methyl iodide	Potassium permanganate
Calflo HTF	Formaldehyde	Milk	Potassium sulphate
Calflo LT	Formic acid 10 %	Mineral oil	Producer gas
Cane sugar liquors	Fuel oil	Mobiltherm 600	Propane
Carbon dioxide	Gasoline	Mobiltherm 603	Propylene
Carbon monoxide	Sour gas	Mobiltherm 605	Prussic acid
Carbonic acid	Gelatin	Mobiltherm Light	Saltpeter

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Sewage	Sodium perborate	Stoddard solvent	Transformer oil
Silver nitrate	Sodium peroxide	Syltherm 800	2,2,4-Trimethylpentane
Silicone oil	Sodium phosphate	Syltherm XLT	Tung oil
Soap solutions	Sodium silicate	Tall oil	Turpentine
Soda ash	Sodium sulphate	Tannic acid	UCON Heat Transfer Fluid 500
Sodium bicarbonate	Sodium superoxide	Tar	UCON Process Fluid WS
Sodium bisulphate	Sodium thiosulphate	Tartaric acid	Urea
Sodium cyanide	Soybean oil	Therminol 55	Varnish
Sodium hydroxide	Starch	Therminol D12	Vegetable oil
Sodium metaborate peroxyhydrate	Steam	Therminol XP	Vinegar
Sodium metaphosphate	Stearic acid	Toluene	Water
Sodium nitrate	Stearyl methacrylate	Towns gas	Zinc sulphate