

Powder Processing Equipment and Systems



Feeding – At the centre of total process control



Controlled feed into a Gericke continuous mixer

Proven designs with thousands of running applications.

Gericke volumetric feeders are designed for throughputs from 0.05 to 50,000 litres per hour for most dry solids and liquid applications.

Gericke's range of feeders are based upon a robust modular design which are used in almost all processing applications including:

- Chemical
- Foods
- Pharmaceutical
- Construction Minerals
- Plastics
- Detergents

Gericke – Feeding of bulk material since 1894.

Gericke offer cost effective feeding solutions for most powders, granules, fibres. flavours, pigments and liquids.

Added Benefit:

Expert advice on correct selection and operation of the unit, prompt after sales support by specialist engineers, secure return on investment.



Modular feeding equipment - designed for process flexibility

Volumetric feeding

The feed rate is measured by volume against time.

A reliable volumetric device is essential for a high accuracy gravimetric weigh feeder.

Accurate metering of bulk solids is achieved using a spiral helix, rotary valve, rotating agitator, vibrating tray or cylindrical stator. Even in the volumetric mode, the metering rate remains constant under the condition of a repeatable fill level within of the selected feeding tool and an even bulk density of the powder.

Gravimetric Feeding



Batch feeding



Continuous feeding



Using a gravimetric feeder with load cells, a batch weight can be accurately dispensed or the feed rate continuously controlled. The requirements.

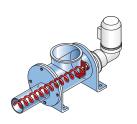
mode is dependent on the process

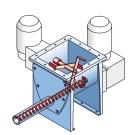
Gericke can upgrade most volumetric feeding models into Gravimetric devices.

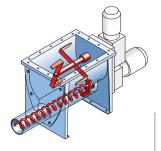
The feedrate or batch weight is regulated by the process

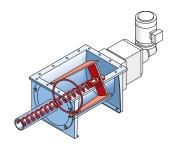
controller.

The right feeder for each specific application









GPD

Low cost, efficient feeder

Application:

Free flowing dry materials for lower feed rates

Advantages:

Quick and simple to dismantle for wet and dry cleaning, light weight unit (9 Kg)

Capacity range*:

0,05-600 l/h

Type:

GPD 100

GLD

Compact feeder with agitator for high accuracy feeding

Application:

Suitable for most dry solids, pilot plants, frequent product changes

Advantages:

Versatile, adaptable, compact, reliable, precise

Capacity range*:

0,05-600 l/h

Type:

GLD 77 (mechanical agitator), GLD 87 (agitator with independent drive)

GDU

Universal feeder, minimal product retention, used for poor flowing materials

Application:

Medium to high capacity feed rates, hygienic design, difficult products, high feeding accuracy, raisin and fruit feeders, (special applications)

Advantages:

Versatile, adaptable, complete emptying

Capacity range*:

1,3–25.600 l/h (depending on model)

Type:

GDU 201, GDU 451, GDU 801 (with agitator), GDU 301, GDU 601 (without agitator)

GAC

Universal Feeder for highest accuracy, homogeneity and distribution of bulk materials

Application:

Medium to high feed rates, very difficult materials, highest feeding accuracy batch weighing & feeding station (GAC 233F)

Advantages:

Feeding tool and homogeniser are concentrically aligned with large product entry suitable for difficult products

Capacity range*:

1,3-27.000 l/h

Type:

GAC 207, GAC 232; GAC 233 F (with separate helix for coarse and trickle feeding)



GPD 100



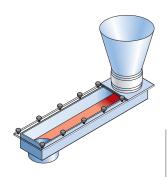
GLD 87

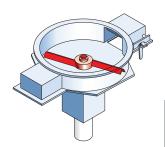


GDU 451



GAC 207







VIBRO

Vibro feeder for coarse and fragile products

Application:

Large capacity range, fragile or abrasive products, light and coarse materials, fibres

Advantages:

No rotating parts, gentle operation, easy cleaning, no component wear

Capacity range*:

1-10000 l/h

RA

Discharge and feeding device for very poor flowing products. A rotating paddle sweeps the product towards the outlet valves. An adjustable valve regulates the feed rate

Application:

Discharge from silo's or hoppers, refilling loss-in-weight feeders, component feeding

Advantages:

Discharge without segregation, feed-distribution (1 – 4 outlets) and shut off valve combined into one device

Capacity range*:

0,2-40.000 l/h

Type:

RA 500, RA 800, RA 1200, RAS (RAS Type for over/under pressures)

KAD

Discharge and feeding device An agitator moves the product towards the outlet. The slide gate regulates the feed rate.

Application:

Filling systems, can be combined with automated batch controller

Advantages:

Combined discharge and feeding, hygienic, easy to clean, high feeding accuracy

Type:

KAD 90 (Outlet diameter 1–90 mm), KAD 150 (Outlet diameter 1–150 mm)



Vibro feeder



RA with 1-4 outlets



KAD discharge and feeding device

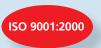
Technical advantages of Gericke feeders:

- Robust construction
- High reliability for long life cycle
- Hygienic design (in accordance with EHEDG)
- Large range of feed tool lengths
- No segregation
- Large entry section
- Constant bulk density
- Crevice free surfaces
- Continuous welding (option)
- Range of drive options
- +/– pressure rated options available



The benefits:

- Easy cleaning
- High feeding accuracy
- Guaranteed recipe reliability
- Versatile applications
- Low maintenance costs
- Simple to control
- Adaptable (easily adaptable)



ISO 9001-2000 quality guarantee Gericke is a member of EHEDG

Selecting the correct feeding tool

Product Characteristics

- free flowing (salt, corn, sugar)
- flushing (carbonates, fly ash, gypsum)
- fluidisable (cocoa)
- cohesive (TiO₂, stearates)
- adhesive (carbon black, pigments)
- abrasive (quartz sand, silicon carbide)
- compressible (chalk)
- fragile (flakes, instant coffee)

Installation



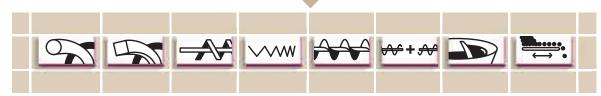
- Mounting (supported or hinged)
- Number of feeders
- Headroom
- Feed distance

Process



- Capacity
- Operation mode (batch/continuous)
- Pressure rating
- Accuracy
- Level of automation

Feeding tool selection



- Round spiral
- Square helix
- Helix with centre shaft and end bearing
- Variable pitch
- Full flight screw
- Vibro feeder

- Extended feed tool
- Fluidisation
- Rotating bin discharger

Accessories for high feed accuracy

Agitator

Homogeniser

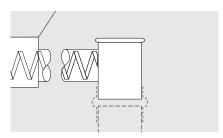
Bridge breakers

- consistent product flow
- repeatable bulk density for optimum feed accuracy
- Ensure difficult products discharge for the surge hopper into the feed chamber

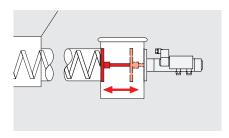
Ancillary process equipment

Gericke feeders are designed using a modular system customised to the specific requirements of the application. The flexibility of the Gericke equipment range offers simplified system design and greater added value.

- Special designs for agitators and homogenisers
- Surface finish and coatings; EGPDFE, Bead blast, electropolished
- Variable feed tool lengths
- Shaft seals: stuffing box, PTFE lip seals, air purge glands
- AR outlet for vertical discharge
- ARFE outlet, flanged with end bearing
- ARFG outlet with "Granuflow" flow control
- AGP shut off valve with position indicator
- Hinged bottom door with safety switch
- FDA approved seals



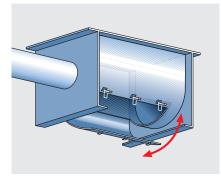
Type AR vertical outlet connection



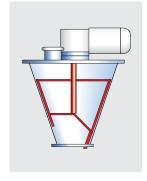
AGP outlet for instant product shut off (optional position indicator)



Semi-automated feeding station for accurate dosing into various sacks and boxes



GAC feeder with hinged door for quick cleaning



Hopper with vertical agitator

- Drive options
- Variable speed integrated frequency inverter
- Pressure tight design
- High temperature applications
- ATEX zones: 1, 2, 22, 21
- Special feeders for raisins and fruits
- Pneumatic conveying feeder refill systems



GDU 601 with extended feed screw

Selection of reference products

Density kg/l

A Activated Charcoal	0.21	Manganese Ore	1.8
Acrylic Resin (Fibres)	0.14	Marble Chips	1.5
Acrylic Resins (Granu Additives	0.2-0.4	Marble Dust Metallic Powder	1.2 3.04
Adipic Acid	0.62	Mica Flakes	0.16
Aerosil Aluminium Chloride	0.046 0.59	Milk Powder Molybdenum Oxide	0.58 1.82
Aluminium Flakes Aluminium Fluoride	1.30 1.22	N	
Aluminium Oxide	0.90	Nuts Nylon (Fibres)	0.41
Aluminium Powder Aluminium Silicate	1.30 0.54	Nylon (Flakes)	0.52
Aluminium Sulphate	0.90	Nylon (Granules) Nylon (Powder)	0.57 0.63
Ammonium Nitrate Ammonium Phospha	0.62 te 0.83	O	0.00
Antimony Oxide	0.69	Oat Cream Powder	0.57
Apple Pectin Ascorbic Acid	0.51 0.55	Oat Flakes Oat Flour	0.45
В		Onion (Chopped)	0.24
Barium Carbonate	0.17-1.4	Onion(Powder) Ores 1	0.41 4–2.6
Barium Stearate Barium Sulphate	0.23 1.45	Oxalic Acid	0.85
Barley Flour Bauxite	0.63 1.2	P	0.27
Borax	0.97	Peppercorn Perlite (Expanded)	0.12
Brick Dust	1.2	Perlite (Rock) Perlon Wool	1.17 0.25
C Cab=O=Sil	0.03	Pesticide 0	4-0.6
Calcium Carbonate	1.2	Phenol Resin (Powder) Pigments 0	0.54 2–1.0
Calcium Chloride Calcium Stearate	0.97–1.1 0.39	Polyethylene (Granules)	0.57
Calcium Sulphate	0.74	Polyethylene (Powder) Poly–Electrolyte 0	0.67 5–0.7
Carbon Black Casting Powder	0.4 0.69	Polyester Chips Polyester Resin (Flakes)	0.15
Celite	0.25	Polypropylene (Granules)	0.4
Celluslose Acetate Cement	0.13 1.2	Polypropylene (Powder)	0.54
Ceramic Mixture	1.4	Polystyrene ((Expanded) Polystyrene (Granules)	0.1
Charcoal Powder Chicory Powder	0.40 0.49	Polystyrene (Powder)	0.65
Chocolate Powder Cinnamon Sugar	0.65 0.74	Polyvinyl Chloride (Granule 0.62	
Citric Acid	0.8	Potash (Flakes) Potassium Permanganate	0.5
Coal Dust Cocoa Beans	0.59 0.56	Potassium Sulphate	2.25
Cocoa Powder	0.5	Potato Flour PTFE (Granules)	0.7
Coffee Beans Coffee Powder	0.39 0.18	PTFE Powder (Algoflow)	0.51
Corn	0.6	PVC Floor Covering Chips PVC Powder	0.6 1.0
Cornflour Corn Starch	0.74 0.48	Q	
D		Quartz Powder Quartz Sand	1.2 1.5
Dacron Dextrose	0.51 0.57	R	1.3
Detergents	0.3	Rice	0.94
Diatomite Dyestuffs	0.08-0.25 0.25-0.75	Rice Crispies Rubber (Chips)	0.11
E		Rubber (Granules)	0.46
Egg Powder	0.35 1.0	S C = /+	1 10
Electrode Carbon Epoxy Resin Powder	0.8	Salt Sand	1.18
F		Sawdust 0.29 Silica – Gel	-0.45 0.25
Feedstuffs (Animal) Ferric Chloride	0.49 1.6	Silica	1.05
Ferric Oxide	0.87-1.3	Silica Acid (Powder)	0.23
Ferric Oxide Felspar Ferrasil	0.87-1.3 1.2-1.8 0.98	Silica Acid (Powder) Sipernat Slag	0.22
Felspar Ferrasil Fibre–Glass Fibres	0.87-1.3 1.2-1.8 0.98 0.2	Silica Acid (Powder) Sipernat	0.22 0.4 0.09 0.47
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder	0.22 0.4 0.09 0.47 0.58
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Soda Sodium Bicarbonate	0.22 0.4 0.09 0.47 0.58 1.0 0.98
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Soda Sodium Bicarbonate Sodium Chloride	0.22 0.47 0.09 0.47 0.58 1.0 0.98
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodia Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Perborate	0.22 0.4 0.09 0.47 0.58 1.0 0.98 1.18 1.35
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011	Silica Acid (Powder) Sipernat Slag Wool Soap Flakes Soap Powder Sodia Bicarbonate Sodium Bicarbonate Sodium Nitrate Sodium Perborate Sodium Perborate	0.22 0.47 0.09 0.47 0.58 1.0 0.98 1.18 1.35 0.78
Felspar Ferrasil Fibre-Glass Fibres Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05	Silica Acid (Powder) Sipernat Slag Wool Soap Flakes Soap Powder Sodia Bicarbonate Sodium Bicarbonate Sodium Nitrate Sodium Perborate Sodium Tripolyphosphate Spice Mixture Spinach Powder (Dry)	0.22 0.47 0.09 0.47 0.58 1.0 0.98 1.18 1.35 0.78 0.75 0.42
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011	Silica Acid (Powder) Sipernat Slag Wool Soap Flakes Soap Powder Sodiam Bicarbonate Sodium Bicarbonate Sodium Chloride Sodium Perborate Sodium Perborate Sodium Perborate Sodium Floolyphosphate Spice Mixture Spinach Powder (Dry) Stabilisers	0.22 0.47 0.09 0.47 0.58 1.0 0.98 1.18 0.78 0.78 0.75 0.42 0.42
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Gakes Fish Food Havourings Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodia Sodium Bicarbonate Sodium Chloride Sodium Perborate Sodium Perborate Sodium Perborate Spiece Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Fowder	0.22 0.47 0.09 0.47 0.58 1.0 0.98 1.18 0.78 0.75 0.42 0.42 0.42
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Dust Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.41 0.35-0.6	Silica Acid (Powder) Sipernat Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Bicarbonate Sodium Nitrate Sodium Perborate Sodium Perborate Sodium Perborate Spica Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Acid Styropor Pellets	0.22 0.44 0.09 0.47 0.58 1.0 0.98 1.18 0.78 0.75 0.42 0.42 0.75 0.67 0.55 0.55
Felspar Ferrasil Fibre-Glass Fibres Filter Cakes Fish Food Havourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground)	0.87-1.3 1.2-1.8 0.98 0.22 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodia Bicarbonate Sodium Chloride Sodium Perborate Sodium Perborate Sodium Tripolyphosphate Spice Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Powder Strearic Acid Styropor Pellets Sucrose	0.22 0.44 0.09 0.47 0.58 1.0 0.98 1.18 1.35 0.78 0.75 0.42 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Dust Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6	Silica Acid (Powder) Sipernat Slag Wool Soap Flakes Soap Powder Soda Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Perborate Sodium Perborate Sodium Tolkride Sodium Tolkride Sodium Ferborate Spinach Powder (Dry) Stabilisers Starch Fowder Starch Fowder Starch Fowder Starch Granules Starch Sources Starch Sources Sucrose (Crystalline) Sugar (Crystalline)	0.22 0.44 0.09 0.47 0.58 1.0 0.98 1.18 1.35 0.78 0.75 0.42 0.45 0.67 0.55 0.54 0.54 1.02
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Dust Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Garlic Powder Gelatine Glass (Ground) Glass (Fibres) Glass (Fibres)	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Perborate Sodium Tinpolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Fowder Stearic Acid Styropor Pellets Sucrose Sucrose Sugar (Crystalline) Sugar (Crystalline) Sugar (Crystalline) Sugar (Crystalline)	0.22 0.44 0.09 0.47 0.58 1.0 0.98 1.18 1.35 0.78 0.75 0.42 0.45 0.67 0.55 0.54 0.67 0.67 0.67 0.67
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelast (Ground) Glass (Splinters) Glass (Splinters) Glass (Beads)	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 1.37 1.65 0.25 0.25 0.25	Silica Acid (Powder) Sipernat Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Olioride Sodium Olioride Sodium Perborate Sodium Perborate Sodium Perborate Spiece Mixture Spiece Mixture Spinach Powder (Dry) Stabilisers Starch Fowder Starch Fowder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Crystalline) Sugar (Powder) Sugar (Powder) Sugar (Powder) Sugar (Powder) Sugar (Powder)	0.22 0.44 0.09 0.47 0.58 1.0 0.98 1.18 1.35 0.78 0.75 0.42 0.45 0.67 0.55 0.54 0.54 1.02
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Dust Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Glass (Ground) Glass (Fibres) Glass (Fibres) Glass (Fibres) Glass (Fibres) Glass (Fibres) Glass (Bass (Frit) Glass (Beads) Glass (Beads) Glass (Beads) Glass (Beads)	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.055 0.25 0.41 0.35-0.6	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Chloride Sodium Chloride Sodium Mitrate Sodium Perborate Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Fowder Starch Granules Starch Powder Stearic Acid Styropor Pellets Sugar (Powder) Sugar (Rowder) Sugar (Rowder) Sugar (Rowder) Sugar (Rawd) Synthetic Wax Powder Synthetic Wax Powder Synthetic Wax Powder Synthetic Wax Powder Synthetic Wax Fowder Synthetic Resin Granules O.55–O.65	0.22 0.44 0.09 0.47 0.58 1.00 0.98 1.135 0.78 0.75 0.42 0.44 0.75 0.55 0.58 0.67 0.58 0.67 0.58 0.68 0.68 0.68
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Dust Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Glass (Ground) Glass (Ground) Glass (Fibres) Glass (Fibres) Glass (Fibres) Glass (Fibres) Glass (Beads) Glue Powder Graphite (Granules) Graphite (Granules)	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.055 0.25 0.41 0.35-0.6	Silica Acid (Powder) Sipemat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Richoride Sodium Nitrate Sodium Perborate Sodium Perborate Sodium Perborate Sodium Perborate Sodium Tipolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Raw) Synthetic Wax Powder Synthetic Resin Granules 0.55—0.55 Synthetic Resin Granules	0.22 0.44 0.09 0.47 0.58 1.00 0.98 1.135 0.78 0.75 0.42 0.44 0.75 0.55 0.58 0.67 0.58 0.67 0.58 0.68 0.68 0.68
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Dust Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth Garlic Powder Gelatine Glass (Fibres) Glass (Fibres) Graphite (Foadules) Graphite (Granules) Graphite (Foatules)	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 0.011 1.005 0.25 0.41 0.35-0.6 0.33 0.74 1.77 1.65 0.4 0.62 0.40 0.65 0.77	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodian Chloride Sodium Bicarbonate Sodium Orloride Sodium Nitrate Sodium Perborate Sodium Tripolyphosphate Spice Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Powder) Sugar (Resin Granules Synthetic Resin Granules 0.55–0.65 Synthetic Resin Powder 0.65–0.75	0.22 0.44 0.09 0.47 0.58 1.00 0.98 1.135 0.78 0.75 0.42 0.44 0.75 0.55 0.58 0.67 0.58 0.67 0.58 0.68 0.68 0.68
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth Garlic Powder Gelatine Glass (Ground) Glass (Splinters) Glass (Fibres) Glass (Fibres) Glass (Firit) Glass (Firit) Glass (Firit) Glass (Firit) Glass (Founder Graphite (Granules) Graphite (Satl) Grass Seed Grinding Powder	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 0.05 0.41 0.35-0.6 0.33 0.74 1.77 1.65 0.22 0.42 0.62 0.62 0.62 0.63 0.63 0.74 0.74 0.65 0.74 0.65 0.74 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	Silica Acid (Powder) Sipemat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Perborate Sodium Perborate Sodium Perborate Sodium Perborate Sodium Perborate Sodium Tipolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Powder Starch Foranules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Crystalline) Sugar (Crystalline) Sugar (Raw) Synthetic Wax Powder Synthetic Resin Granules 0.55–0.55 Synthetic Resin Fowder 0.65–0.75 Talcum	0.22 0.40 0.09 0.58 1.00 0.78 0.78 0.75 0.67 0.58 0.75 0.67 0.58 0.54 0.67 0.58 0.67 0.58 0.74 0.75
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground) Glass (Fibres)	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 0.01 0.01 0.35-0.6 0.33 0.74 1.77 1.65 0.22 0.41 0.62 0.62 0.62 0.62 0.63 0.74 1.77 0.62 0.62 0.63 0.63 0.74 0.64 0.65 0.74 0.74 0.65 0.74 0.65 0.74 0.65 0.74 0.65 0.74 0.65 0.74 0.65 0.74 0.65 0.65 0.74 0.65 0.74 0.65 0.65 0.74 0.65 0.65 0.74 0.65 0.65 0.74 0.65 0.65 0.65 0.74 0.65 0.65 0.65 0.75 0.65 0.75 0.65 0.75 0.65 0.75 0.65 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.7	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Perborate Sodium Tripolyphosphate Spice Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Fornules Starch Fornules Starch Fornules Starch Granules Starch Granules Starch Granules Starch Granules Starch Starch Starch Starch Starch Starch Fowder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Raw) Sugar (Powder) Sugar (Raw) Synthetic Wax Powder Synthetic Resin Granules 0.55–0.65 Synthetic Resin Fowder 0.65–0.75 Talcum Tea	0.22 0.40 0.09 1.02 0.75 0.78 0.75 0.67 0.67 0.67 0.67 0.67 0.62 0.62 0.62 0.62 0.62
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth Garlic Powder Gelatine Glass (Ground) Glass (Fibres) G	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6 0.33 0.74 1.77 1.65 0.22 1.95 0.4 0.66 1.12 0.58 0.56 0.58 0.56 0.50 0.50 0.50 0.50 0.50 0.50 0.50	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodian Chloride Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Terborate Sodium Tripolyphosphate Spice Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Royalline) Sugar (Powder) Sugar (Royalline)	0.22 0.47 0.09 0.47 0.58 1.18 1.35 0.75 0.42 0.45 0.67 0.67 0.55 0.62 0.42
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Fish Food Filavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground) Glass (Fibres) Gla	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6 0.33 0.74 1.77 1.65 0.22 1.95 0.4 0.66 1.12 0.58 0.5 0.58 0.5 0.16 2.3 0.9 1.2 1.4-1.7	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Chloride Sodium Perborate Sodium Tinpolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Fowder Starch Fowder Starch Granules Starch Fowder Starch Granules Starch Fowder Starch Granules Starch Granules Starch Granules Starch Sucrose Starch Granules Starch Powder Starch Fowder Surgar (Crystalline) Sugar (Cystalline) Sugar (Rowder) Sugar (Rowder) Sugar (Rowder) Synthetic Resin Granules 0.55–0.65 Synthetic Resin Fowder 0.65–0.75 T Talcum Tea Teefon Fibres Terephtalic Acid Textile Fibres	0.22 0.40 0.09 0.58 1.0 0.75 0.75 0.42 0.40 0.55 0.54 0.62 0.81 0.42
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Flue Bust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth Garlic Powder Gelatine Glass (Ground) Glass (Fibres) Glass	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 0.01 0.01 0.35-0.6 0.33 0.74 1.77 1.65 0.22 0.41 0.62 0.62 0.62 0.62 0.63 0.74 1.77 0.62 0.62 0.63 0.63 0.74 0.64 0.65 0.74 0.74 0.65 0.74 0.65 0.74 0.65 0.74 0.65 0.74 0.65 0.74 0.65 0.74 0.65 0.65 0.74 0.65 0.74 0.65 0.65 0.74 0.65 0.65 0.74 0.65 0.65 0.74 0.65 0.65 0.65 0.74 0.65 0.65 0.65 0.75 0.65 0.75 0.65 0.75 0.65 0.75 0.65 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.7	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Bicarbonate Sodium Bicarbonate Sodium Bicarbonate Sodium Bicarbonate Sodium Rebroate Sodium Tripolyphosphate Spice Mixture Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Powder Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Rowder) S	0.22 0.44 0.09 0.47 0.58 1.18 1.35 0.78 0.78 0.75 0.62 0.62 0.62 0.62 0.62 0.42
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Fish Food Filavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shawings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground) Glass (Fibres) Gla	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.055 0.25 0.41 0.35-0.6 0.25 0.41 0.35-0.6 1.12 0.58 0.58 0.50 0.16 2.3 0.9 1.2 1.4-1.7 0.4-0.6	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Bicarbonate Sodium Bicarbonate Sodium Perborate Sodium Perborate Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Foranules Starch Foranules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Rowder) Sugar (Crystalline) Sugar (Cry	0.22 0.44 0.09 0.47 0.58 0.78 0.42 0.40 0.55 0.58 0.58 0.58 0.58 0.42 0.42 0.42
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Floam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground) Glass (Fibres) Glass (Fibres	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.011 0.35-0.6 0.25 0.41 0.35-0.6 0.25 0.41 0.35-0.6 0.25 0.41 0.35-0.6 0.25 0.41 0.35-0.6 0.25 0.41 0.40 0.62 0.66 0.112 0.58 0.59 0.44 0.62 0.60 0.61 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Nitrate Sodium Thipolyphosphate Spice Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Powder Starch Granules Starch Powder Starch Granules Starch Powder Starch Granules Starch Services Starch Granules Starch Powder Starch Granules Starch Powder Starch Granules Starch Powder Starch Granules Ourger (Crystalline) Sugar (Crystalline) Sugar (Crystalline) Sugar (Rowder) Sugar (Rowder) Sugar (Rowder) Synthetic Resin Granules 0.55–0.65 T T Talcum Tea Teffon Fibres Terepintalic Acid Textile Fibres Titanium Dioxide (White) Tobacco (Cigarettes) Tobacco (Cigarettes) Tobacco (Cigarettes) Tobacco (Cigarettes) Tobacco (Leaf) Tir-Sodium Phosphate Tir-Sodium Phosphate	0.22 0.44 0.09 0.47 0.58 0.75 0.42 0.45 0.67 0.58 0.54 0.62 0.62 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Fish Food Fish Food Filee Dats Flue Grant Flue Glass Flue Grant	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.055 0.25 0.41 0.35-0.6 0.25 0.41 0.35-0.6 1.12 0.58 0.58 0.50 0.16 2.3 0.9 1.2 1.4-1.7 0.4-0.6	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Bicarbonate Sodium Bicarbonate Sodium Perborate Sodium Perborate Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Foranules Starch Foranules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Rowder) Sugar (Crystalline) Sugar (Cry	0.22 0.44 0.09 0.47 0.58 0.78 0.42 0.40 0.55 0.58 0.58 0.58 0.58 0.42 0.42 0.42
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Floam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground) Glass (Fibres) Glass (Fibres	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.011 0.35-0.6 0.25 0.41 0.35-0.6 0.25 0.41 0.35-0.6 0.25 0.41 0.35-0.6 0.25 0.41 0.35-0.6 0.25 0.41 0.40 0.62 0.66 0.112 0.58 0.59 0.44 0.62 0.60 0.61 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	Silica Acid (Powder) Sipernat Slag Sipernat Slag Wool Soap Flakes Soap Powder Sodian Chloride Sodium Bicarbonate Sodium Bicarbonate Sodium Nitrate Sodium Perborate Sodium Tripolyphosphate Spice Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Granules Starch Fowder Starch Granules Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Royder) Sugar (Ro	0.22 0.44 0.09 0.47 0.58 0.78 0.78 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Fish Food Fish Food Fish Food Filter Cakes Fish Food Filter Cakes Fish Food Filter Cakes Filter Cakes Filter Cakes Filter Cakes Foam Rubter Foam Stavings Fluid Forward Glass (Firit) Glass (Fi	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6 0.33 0.74 1.7 1.65 0.22 0.66 1.122 0.58 0.16 2.3 0.9 1.2 1.4-1.7 0.4-0.6 3.5 1.3	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodian Chloride Sodium Bicarbonate Sodium Ritare Sodium Phosphate Spice Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Powder (Dry) Stabilisers Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Raw) Sugar (Raw) Synthetic Wax Powder Synthetic Resin Granules 0.55–0.65 Synthetic Resin Powder Tea Talcum Tea Tea Teflon Fibres Terephtalic Acid Textile Fibres Terephtalic Acid Textile Fibres Tianium Dioxide (White) Tobacco (Leaf) Tini-Calcium Phosphate Tinjobylnbayate Tinjobylnbayate Tinjoshphate Tingsten Carbide V Warnish Powder (Course)	0.22 0.47 0.58 1.18 0.75 0.42 0.46 0.75 0.65 0.58 0.58 0.75 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.6
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Flavourings Flue Ash Flue Dust Floam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth Garlic Powder Gelatine Glass (Ground) Glass (Ground) Glass (Fibres)	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6 0.33 0.74 1.77 1.65 0.2 1.95 0.4 0.66 1.12 0.58 0.58 0.59 0.16 2.3 0.91 1.2 1.4-1.7 0.4-0.6 0.4-0.6 0.3.5 1.3	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodian Bicarbonate Sodium Bicarbonate Sodium Nitrate Sodium Nitrate Sodium Prebroate Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Foranules Starch Powder (Dry) Stabilisers Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Raw) Sugar (Raw) Sugar (Raw) Sugar (Raw) Talcum Tea Talcum Tea Teflon Fibres Terephtalic Acid Textle Fibres Terephtalic Acid Textle Fibres Terephtalic Acid Textle Fibres Tinanium Dioxide (White) Tobacco (Leaf) Tini-Calcium Phosphate TinjoDyhosphate TinjoSphosphate TinjoSphosphate Tingsten Carbide V Varnish Powder (Course) Vinyl Resin Granules) Vinyl Resin Granules) Vinyl Resin Fowder	0.22 0.09 0.47 0.58 1.00 0.78 0.78 0.78 0.78 0.75 0.42 0.40 0.55 0.54 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Filavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Glass (Ground) Glass (Ground) Glass (Fibres) Glass (0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6 0.33 0.74 1.77 1.65 0.4 0.62 1.95 0.4 0.66 1.12 0.58 0.16 2.33 0.9 1.2 1.4-1.7 0.4-0.6 0.4-0.6 3.5 1.3 0.8	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Chloride Sodium Chloride Sodium Nitrate Sodium Perborate Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Founder Starch Founder Starch Powder (Starch Granules Starch Granules Starch Powder Stearic Acid Styropor Pellets Sugrar (Crystalline) Sugar (Powder) Sugar (Rowder) Sug	0.22 0.09 0.47 0.58 1.00 0.78 0.78 0.78 0.78 0.78 0.78 0.67 0.42 0.49 0.49 0.49 0.49 0.49 0.75 0.75 0.42 0.49 0.49 0.75 0.75 0.75 0.75 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Filavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fungicide Fulgiers Garlic Powder Gelatine Glass (Ground) Glass (Ground) Glass (Fibres) Glass (Fibr	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.35-0.6 0.33 0.744 1.77 1.65 0.22 0.41 0.35-0.6 0.62 0.66 0.62 0.66 0.62 0.66 0.62 0.66 0.63 0.74 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodian Bicarbonate Sodium Bicarbonate Sodium Nitrate Sodium Nitrate Sodium Prebroate Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Foranules Starch Powder (Dry) Stabilisers Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Raw) Sugar (Raw) Sugar (Raw) Sugar (Raw) Talcum Tea Talcum Tea Teflon Fibres Terephtalic Acid Textle Fibres Terephtalic Acid Textle Fibres Terephtalic Acid Textle Fibres Tinanium Dioxide (White) Tobacco (Leaf) Tini-Calcium Phosphate TinjoDyhosphate TinjoSphosphate TinjoSphosphate Tingsten Carbide V Varnish Powder (Course) Vinyl Resin Granules) Vinyl Resin Granules) Vinyl Resin Fowder	0.22 0.09 0.47 0.58 1.00 0.78 0.78 0.78 0.75 0.42 0.40 0.55 0.54 0.67 0.55 0.54 0.67 0.55 0.54 0.67 0.55 0.54 0.67 0.55 0.54 0.67 0.55 0.78
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Filavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shawings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground) Glass (Ground) Glass (Fibres) Glass (Fibres	0.87-1.3 1.2-1.8 0.98 0.2 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6 0.33 0.74 1.77 1.65 0.4 0.62 1.95 0.4 0.66 1.12 0.58 0.16 2.33 0.9 1.2 1.4-1.7 0.4-0.6 0.4-0.6 3.5 1.3 0.8 0.9 0.62 1.35 0.8	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Chloride Sodium Nitrate Sodium Chloride Sodium Perborate Sodium Tinpolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Fonder Starch Fonder Starch Granules Starch Fonder Starch Granules Starch Fowder Starch Granules Starch Powder Starch Granules Starch Powder Starch Fonder Starch Surose Starch Granules Starch Powder Starch Fonder Starch Surose Starch Fonder Starch Fonder Sugar (Crystalline)	0.22 0.40 0.47 0.58 1.00 0.78 0.78 0.78 0.78 0.78 0.75 0.62 0.42 0.42 0.42 0.42 0.42 0.42 0.43 0.42 0.45 0.58
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Fish Food Fish Food Fish Food Fish Food Fish Food Filter Cakes Fish Food Filter Cakes Fish Food Filter Cakes Filter Cakes Filter Cakes Filter Cakes Foam Rubber Foam Rubber Foam Sthavings Fungicide Fullers Earth Garlic Powder Gelatine Glass (Fround) Glass (Splinters) Glass (Splinters) Glass (Frit) Glass (Beads) Glass (Frit) Glass (Beads) Glass (Frit) Glass (Beads) Glasing Mixture Glue Powder Glazing Mixture Glue Powder Graphite (Granules) Graphite (Granules) Graphite (Granules) Graphite (Granules) Graphite (Granules) Graphite (Salt) Grass Seed Grinding Powder Gypsum Calcined Gravel H Herbicide I Insecticide Iron Powder Iron Sulphate K K Kaolin (dry) L Lime (Quick) Limestone (Crushed) Limestone (Grushed)	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.35-0.6 0.33 0.74 1.7 1.65 0.2 1.95 0.41 0.35-0.6 0.10 0.10 0.10 0.10 0.10 0.10 0.10	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Bicarbonate Sodium Nitrate Sodium Nitrate Sodium Perborate Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Foranules Starch Powder (Dry) Stabilisers Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Postalline) Sugar (Postalline) Sugar (Powder) Sugar (Raw) Synthetic Wax Powder Synthetic Resin Granules 0.55–0.65 Synthetic Resin Powder O65–0.75 T Talcum Tea Tea Teflon Fibres Terephtalic Acid Textile Fibres Tieraphun Dioxide (White) Tobacco (Leaf) Tini-Calcium Phosphate Tini-Sodium Phosphate Tinipolyphosphate Tinipolyphos	0.22 0.09 0.47 0.58 1.00 0.78 0.78 0.78 0.75 0.42 0.40 0.55 0.54 0.67 0.55 0.54 0.67 0.55 0.54 0.67 0.55 0.54 0.67 0.55 0.54 0.67 0.55 0.78
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Filavourings Flue Dast Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground) Glass (Ground) Glass (Ground) Glass (Fibres) Glass (Fibre	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.011 0.35-0.6 0.33 0.74 1.7 1.65 0.2 1.95 0.44 0.62 0.66 1.12 0.50 0.16 0.25 1.4-1.7 0.4-0.6 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0	Silica Acid (Powder) Sipernat Slag Sipernat Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Bicarbonate Sodium Bicarbonate Sodium Bicarbonate Sodium Bicarbonate Sodium Prebroate Sodium Prebroate Sodium Tripolyphosphate Spice Mixture Spinach Powder (Dry) Stabilisers Starch Granules Starch Granules Starch Powder Stearic Acid Styropor Pellet Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Powder) Sugar (Powder) Sugar (Powder) Sugar (Royal Bicker) Sugar (0.22 0.40 0.40 0.58 1.05 1.18 1.35 0.78 0.75 0.42 0.44 0.45 0.81 1.02 0.41 0.42 0.42 0.43 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.40 0.75 0.67 0.75 0.67 0.75
Felspar Ferrasil Fibre-Glass Fibres Filtration Aids Filter Cakes Fish Food Filavourings Flue Ash Flue Dust Foam Plastic Flakes Foam Rubber Foam Shavings Fungicide Fullers Earth G Garlic Powder Gelatine Glass (Ground) Glass (Ground) Glass (Fibres) Glass (Fibres	0.87-1.3 1.2-1.8 0.98 0.22 0.23 0.65 0.77 0.33 1.06 1.30 0.011 0.05 0.25 0.41 0.35-0.6 0.33 0.74 1.77 1.65 0.62 0.66 1.12 0.58 0.66 1.12 0.58 0.61 0.23 0.9 1.27 0.4-0.6 0.4-0.6 0.58 0.58 0.58 0.58 0.59 0.44 0.62 0.62 0.34 0.63 0.53	Silica Acid (Powder) Sipernat Slag Slag Wool Soap Flakes Soap Powder Sodium Bicarbonate Sodium Richloride Sodium Nitrate Sodium Perborate Sodium Tripolyphosphate Spinach Powder (Dry) Stabilisers Starch Granules Starch Foranules Starch Foranules Starch Foranules Starch Fowder (Dry) Stabilisers Starch Granules Starch Powder Stearic Acid Styropor Pellets Sucrose Sucrose (Crystalline) Sugar (Powder) Sugar (Raw) Sugar (Raw) Sugar (Raw) Sugar (Raw) Sugar (Raw) Fae Talcum Tea Talcum Tea Tea Teflon Fibres Terephtalic Acid Textle Fibres Terephtalic Acid Textle Fibres Tinnium Dioxide (White) Tobacco (Leaf) Tin-Calcium Phosphate Tin-Sodium Ph	0.22 0.40 0.40 0.75 0.78 0.78 0.78 0.78 0.75 0.67 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.55

World-wide Service Support

Material reference chart:

The stated values are for indicative purposes only and are subject to confirmation after receipt of all application details. Planning drawings are available in dxf format from the Gericke web-site www.gericke.net.

Туре	Feed capacity range	Drive	Weight	Height, Width, Length	Specials
	l/h*	kW	kg	(including drive and	
				feed device) mm	
GPD 100	0,05 – 600	0,12	9	270, 150, 480	without agitator
GLD 77	0,05 – 600	0,12	12	350, 200, 540	mechanical agitator
GLD 87	0,05 – 600	0,12	18	350, 350, 540	with independent drive
GAC 207	1,3 – 4.800	0,55	75	500, 290, 1110	homogenising
GAC 232	1,3 – 27.000	0,55	90	540, 390, 1260	homogenising
GAC 233 F	batch operation	0,55	140	450, 400, 1400	2 feedworms
GDU 201	1,3 – 800	0,55	50	340, 420, 1000	minimal product
					retention
GDU 301	1,3 – 11.200	0,55	40	280, 290, 1100	without agitator
GDU 451	10 – 11.200	0,55	100	680, 390, 1200	minimal product
					retention
GDU 601	10 – 25.000	0,55	50	360, 390, 1400	sack tipping
GDU 801	500 – 50.000	3,0	450	910, 1150, 2000	difficult powder
Vibro	0,5 - 10.000				
KAD150	batch operation	0,37	40	900, 510 diameter	conditioning
RA 500	400 – 40.000	3,0	100	ca. 600 diameter	1–4 outlets
RA 800	400 – 80.000	5,5	150	ca. 900 diameter	1–4 outlets
RA1200	400 – 100.000		200	ca. 1300 diameter	1–4 outlets

^{*}Approximate throughput values based on Semolina. Minimum value using smallest helix diameter at 5% of speed range and maximum value with largest helix at 100%



Feeding and sifting station for Pharmaceutical powders

For further information about gravimetric feeders and controllers please request the Gericke leaflets No 624 **Easydos** and No 625 **Gravimetric feeders**.

We will be pleased to forward copies or alternatively they can be downloaded for our website **www.gericke.net** **G**ericke feeders are used in a vast variety of production applications including: ice tea, syrups, spices, mustard, milk powder, cereal bars, pizza toppings, gypsum boards, salt, ceramics, metal coatings, PVC powder and many more.

Gericke

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