

Thomas Bell & Sons Ltd

Fertiliser Importers



www.thomas-bell.co.uk

ABOUT US

Established in 1878, Thomas Bell and Sons Ltd have been importing quality fertilisers for over forty years, and were pioneers in the introduction of big bags. Thomas Bell import and supply a large range of quality fertilisers into major ports throughout the UK.

Having built the business over many years, we are now the largest privately owned independent importer of fertilisers in the UK. We supply fertiliser direct to farm, buying groups and merchants nationwide.

OUR HISTORY

1878

Local agricultural millers and grain merchants

1930

Diversified to general agricultural merchants

1950

Growth with further expansion into supplying feed, fertilisers and seed

1970

Started importing fertiliser with 70,000 sq ft of warehousing facilities and expansion in our transport network with a fleet of 10 lorries. At this time we were packaging 100,000 tonne of IBC bagged product.

1990

Expansion from local merchants to national suppliers of imported quality fertilisers.

2000

Growth continues in our product portfolio ensuring we deliver quality and cost effective alternatives to the agricultural trade.

Today

We are the largest privately owned fertiliser importer offering a large range of high quality fertilisers. This is all backed up with state of the art blending plant, 150,000 sq ft of undercover storage and 20 of our own fleet of lorries.



1930's: Thomas Bell & Sons - Millers of Brigg.



1930's: Millers, Corn & Cake Merchants, Poultry Food Providers.



1950's: Thomas Bell & Sons Agricultural Merchants.



1970's: 70,000 sq ft of warehousing facilities, Brigg, North Lincolnshire.



2015: Introduction 20 lorries to increase service levels.



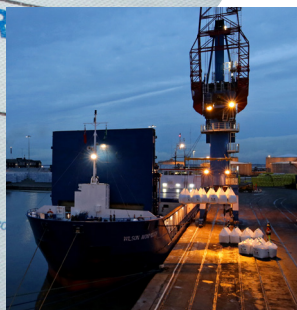
2017: Blending operations at ABP Immingham.



DIAMOND
FERTILISERS

GRANULAR UR
46%N

1000kg



OUR VALUES

Despite being at the forefront of importing, supplying and manufacturing high quality fertilisers, we are dedicated to providing an excellent customer service. We believe in old fashioned values and deal with people at a personal level.

We are different

We are passionate about caring for our customers and this attribute is shared by all of our employees. We treat customers in a way that is unique, which sets us apart from many of our competitors. As one of our customers, you will always deal with a member of staff you know and have regular contact with.



OUR MISSION

We are committed to providing a comprehensive range of high quality fertilisers including Ammonium Nitrate, Granular and Prilled Urea, N.P.K compounds, blends, salt mixes and straights.

Supporting you

We strive to deliver all of your fertiliser needs with a skilled team of staff ensuring support is there whenever you need it. With the right products, they can advise you on which grade to use.

Direct from 'port to farm'

Our in house team manage and control the movement of all our products throughout the UK. We strive to ensure these products arrive efficiently by FIAS accredited hauliers.

What makes us different?

- Competitive solutions
- Efficient distribution
- First class customer service
- A passion for quality results
- Direct delivery from 'factory to farm'



It's time to go **Green**



Spreader settings
available for all major
spreader manufacturers



Limus® by BASF
Urease Inhibitor

Increase Nitrogen Use Efficiency



OUR PRODUCTS

AMMONIUM NITRATE

We supply imported Prilled and Granular Ammonium Nitrate which is perfect for use throughout the fertiliser season.

PRILLED AMMONIUM NITRATE

LITHAN® and **PULAN®** can achieve spread patterns up to bouts of 36 metres. Tested and confirmed by SCS Spreader & Sprayer Testing Ltd, the UK's leading spreader calibration service.

GRANULAR AMMONIUM NITRATE

Zaksan 33 from Grupa Azoty is a premium fertiliser can achieve spread patterns up to bouts of 42 metres with the correct settings.

AMMONIUM SULPHATE

High quality products for crops with a high demand for sulphur, our range includes Ammonium Sulphate Select Grage, Domogran and Select Crystals.

Available in either 600kg, 1000kg bags or bulk.

GRANULAR UREA

Our Granular Urea is of the highest standard from reputable manufacturers.

- Granulometry 2 - 4mm
- Spreads accurately up to 32 metres
- **N-SHIELD®** fertilisers protected by **Limus®** a urease inhibitor which offers a range of benefits to farmers.

We also provide size matched Granular Urea and Sulphur grades such as for 40N 14SO₃, 38N 19SO₃ and 33.5N 30SO₃.

PRILLED UREA

A competitive source of N, ideal for pneumatic spreader application or liquefying.

- Granulometry 1 - 3mm
- Consistent high quality material

*We fully recommend your spreader is calibrated for both application rate and spread pattern. Spreader charts are available upon request.

COMPOUNDS, STRAIGHTS & BLEND

COMPOUNDS

- Nitrogen Sulphur Compound 27N 12SO₃ and ASN 26N 37SO₃ Compound, both for spreading bouts up to 36 metres.

STRAIGHTS

- MOP - TSP - DAP - CAN - MAP - SOP and SUPA KIESERITE®

- Salts, Sylvinit and all other micro-nutrients

BLEND S

Our blended fertilisers, manufactured under the brand '**Diamond Fertilisers**' are formulated from more than the best raw materials sourced from around the world. All blends are double screened and oil coated to provide a dust-free and free flowing product, assisting shelf-life and spreadability.

- Typical analysis such as 20.10.10 + 8SO₃, 25.5.5, 16.16.16, 23.0.13 + 8 0.24.24, 0.18.36 or tailor-made blends available on request.



Brought to you by Grupa Azoty the second largest producer of nitrogen fertilisers in the EU

"This product spreads as accurately as any prilled Ammonium Nitrate on the market" Rob Foxall, SCS Spreader & Sprayer Testing Ltd.

Available in 600kg big bags

Spreading test results

General Data

Spreader type	Amazone ZA-M Ultra	Spreader width (m)	24 metres
Disc/Vane type	OM 24/48	Application rate setting	200kg/ha
Spread setting	23/44	Forward Speed	10 kph
PTO/Disc speed (R.P.M)	720	Crop/Ground conditions	Grass
Spreader height (cm)	80	Wind speed	Force 0-1

Fertiliser Data

Granule Size (mm)	<2	<2-3.3	<3.3-4.74	<4.75
Spread setting	15	85	0	0
PTO/Disc Speed	1.06 kg/litre			
Spreader height (cm)	0.5 to 1.5 kg force			

Spread Width 24 metres

C. of V (%) 6.61

Co efficient of Variation measures the accuracy of the spread pattern. A figure below 10% is acceptable, between 10% and 20% is not ideal and above 20% is unacceptable





Brought to you by Achema a reliable and leading producer of nitrogen fertilisers

Lithan 34.4%N Ammonium Nitrate capable of being spread up to **36 metres**, subject to correct spreader settings and weather conditions.

Available in 600kg or 1000kg bags

Spreading test results

General Data			
Spreader type	Amazona ZA-TS	Spreader width (m)	36 metres
Disc/Vane type	TS3	Application rate setting	200kg/ha
Spread setting	40	Forward Speed	10 kph
PTO/Disc speed (R.P.M)	900	Crop/Ground conditions	Grass
Spreader height (cm)	80cm from side of disc	Wind speed	Force 0-1

Fertiliser Data				
Size Analysis (mm)	0-2	2-3.3	3.3-4.74	>4.75
Average	5	95	0	0
Bulk Density (kg/l)	0.97 kg/litre			
Spreader height (cm)	80			

Spread Width	36 metres
C. of V (%)	8.27

Co efficient of Variation measures the accuracy of the spread pattern. A figure below 10% is acceptable, between 10% and 20% is not ideal and above 20% is unacceptable





ZAKsan 33,5

Brought to you by Grupa Azoty the second largest producer of nitrogen fertilisers in the EU

ZAKSAN® 33.5 is a premium quality Granular Ammonium Nitrate brought to you by Grupa Azoty, the manufacturers of Pulan®. With the correct spreader settings ZAKSAN® 33.5 can achieve bouts up to **42 metres**. Available in 600kg big bags

Spreading test results

General Data

Spreader type	Amazona ZA-M Ultra	Spreader width (m)	42 metres
Disc/Vane type	TS3	Application rate setting	250kg/ha
Spread setting	35	Forward Speed	10 km/h
PTO/Disc speed (R.P.M)	800	Crop/Ground conditions	Grass
Spreader height (cm)	80cm from side of disc	Wind speed	Force 0-1

Fertiliser Data

Density	0.94 kg/litre
Spreader height (cm)	0.5 to 1.5 kg force

Spread Width	42 metres
C. of V (%)	9.62%



Universal fertilizer used before sowing and top dressing, enriched with calcium and magnesium. It does not acidify the soil. The high quality of the granules guarantees even sowing, up to 42 metres.

**Use this chart as a starting point and always double check with trays or easy check mats to confirm the spread pattern



DIAMOND
FERTILISERS



QUALITY BLENDS, STRAIGHTS & COMPOUNDS

Situated within ABP Immingham, Diamond Fertilisers state of the art blending plant includes the latest precision measurement technology with multi- hopper conveyor systems and double screening to improve production efficiency, provide optimum product quality, assist shelf-life and spreadability. Quality raw materials are sourced from around the world as a necessity to ensure the end product maintains a high standard.

OIL COATED

Product quality is enhanced with an oil coating which is applied during the blending process, so farmers can be confident when they come to use the fertiliser it will be in a prime and free flowing condition.

DOUBLE SCREENED

Care and attention is key during the production and all grades are double screened to enhance the quality.

PACKAGING & STORAGE

All Diamond Fertilisers products are packed in high quality 600kg or 1000kg bags. All bags are stored undercover. Bag weights are checked and recorded regularly during production.

PRODUCT RANGE

- Granular NPK Fertilisers
- Ammonium Sulphate
- ASN 26N 37SO₃ and 27N 12SO₃
- Muriate of Potash (MOP)
- Triple Super Phosphate (TSP)
- Diammonium Phosphate (DAP)
- SUPA KIESERITE® (MgSO₃)
- Calcium Ammonium Nitrate (CAN)
- Granular and Prilled UREA
- N-SHIELD® fertilisers protected by Limus®
- Urea Sulphur Blends
- Custom blends available on request

OPERATIONS SITUATED IN ABP BULK PARK, IMMINGHAM

400,000 sq ft

OF DEDICATED FACILITIES

- 150,000 sq ft of undercover storage
- 200,000 sq ft of bulk storage
- 50,000 sq ft dedicated to blending
- Ability to discharge cargoes up to 25,000 tonnes



STRAIGHTS



MOP

Bulk Density: 1040km/m3

Composition: 60K20

Muriate of Potash (MOP) is most commonly called potash or potassium chloride. MOP typically contains 60% potash and is the most widely used form of potash.



TSP

Bulk Density: 975 km/m3

Composition: 46 P205

Triple Superphosphate (TSP) typically contains 46% phosphate. Phosphorus is vital for photosynthesis to occur, the process by which plants convert sunlight into sugars.



DAP

Bulk Density: 960 km/m3

Composition: 18N 46P

DAP is produced combining phosphoric acid with ammonia. It contains 18% nitrogen and 46% phosphorus pentoxide. It is a granular fertiliser which can be applied direct or used as part of a blend.



CAN

Bulk Density: 1000 km/m3

Composition: 27N

CAN is a reliable granulated fertiliser consisting of a total 27% nitrogen. Can be used as a straight or part of a blend. Available in bulk, 600kg or 1000kg bags.



SUPA KIESERITE®

27MGO 50SO₃

Characteristics: White/Yellow.

CHEMICAL AND PHYSICAL VALUES

MgSO ₄ H ₂ O	100%
MgO (Total)	> 27%
MgO Water Soluble in water	> 25% (= Mg 15.1%)
SO ₃ (Total)	> 51.2% (= S 20.48%)
S Water-Soluble Sulphur Trioxide	= 20.48%

This product is water soluble and can be applied to all crops.
It is available to plants at all PH levels.

Available in Bulk, 600kg or 1000kg.

Fact and Benefits

- **SUPA KIESERITE®** is suitable for use on all crop types.
- The nutrients are in a form that is immediately plant available.
- Sulphur is essential to plants for amino acid and protein production.
- Magnesium is essential to plants as a constituent of chlorophyll.
- Great for use in situations where Magnesium is deficient.
- Fantastic spreading characteristics due to size and density of granules.





Brought to you by **Fertiberia**

26N 37S03

Quality and Performance

More efficiency - lower losses due to volatilization vs. fertilisers formulated with ureic Nitrogen.

Higher profit - balanced top-dressing fertilisation due to different release of Nitrogen.

Best balance - nitrogen and sulphur 100% absorbed and supplied together.

Top performance - promotes the absorption of soil micronutrients due to its nitric nitrogen and sulphur. Will spread to bouts of **48 metres** with the correct settings.



Spreading test results for 26N 37S03

General Data			
Spreader type	Amazona ZA-TS	Spreader width (m)	48 metres
Disc/Vane type	TS3	Application rate setting	150kg/ha
Spread setting	45	Forward Speed	10 km/h
PTO/Disc speed (R.P.M)	900	Crop/Ground conditions	Grass
Spreader height (cm)	80cm from side of disc	Wind speed	5 km/h

Technical Specification	
TOTAL NITROGEN (N%)	26
NITRIC NITROGEN (N%)	6.5
AMMONIACAL NITROGEN	19.5
TOTAL SULPHUR TRIOXIDE (SO3)	37
Density (Kg/L)	0.85 kg/Litre





Brought to you by **Fertiberia**

27N 12S03



Benefits and Differences

Even application - of all nutrients across the whole spreader bout width, which optimises nutrient use efficiency and crop response.

Reliable - consistent high quality, year on year.

Balanced - has the right balance of Nitrogen to Sulphur for all season use.

Performance - widths of **54 meters** are achievable with certain spreaders and in suitable weather conditions.



Spreading test results for 27N 12S03

General Data			
Spreader type	Amazone ZA-TS	Spreader width (m)	54 metres
Disc/Vane type	TS3	Application rate setting	200kg/ha
Spread setting	44	Forward Speed	10 km/h
PTO/Disc speed (R.P.M)	900	Crop/Ground conditions	Grass
Spreader height (cm)	80cm from side of disc	Wind speed	5 km/h

Technical Specification	
TOTAL NITROGEN (N%)	27
NITRIC NITROGEN (N%)	13.5
AMMONIACAL NITROGEN	13.5
TOTAL SULPHUR TRIOXIDE (SO ₃ , %)	12
Density (Kg/L)	1.07 kg/Litre





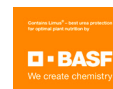
BLENDS



Diamond Fertilisers blends are a combination of nitrogen, phosphates and potash which provide nutrition that is right for your crops. All blends are oil coated to provide a dust-free and free flowing product, assisting shelf-life and spreadability. Good crop nutrition will help you achieve maximum crop yields and future crop potential. Traditional blends are available or prescription blends are available upon request.

Available in 600kg and 1000kg

- | | | |
|------------|----------------|---------------|
| • 0.24.24 | • 20.10.10 | • 22.4.12 |
| • 0.26.26 | • 20.10.10 + 8 | • 22.4.12 + 8 |
| • 0.20..30 | • 25.5.5 | • 16.16.16 |
| • 0.16.36 | • 25.5.5 + 8 | • 13.13.20 |
| • 0.15.30 | • 23.0.13 | • 5.24.24 |
| • 0.30.15 | • 23.0.13 + 8 | |



Limus® by BASF
Urease Inhibitor

N-Shield®

Increase Nitrogen Use Efficiency with **Limus®** by BASF

- Reduction in ammonia emissions by up to 98% and improvement in NUE
- Increased application timing flexibility
- Improves yield by 5% compared to unprotected urea*
- Raises performance to the level of AN
- The only urease inhibitor with two actives (NBPT and NPPT) for optimal efficacy
- Store Limus for more than 12 months thanks to BASF formulation technology
- Applied to tried and trusted quality Granular Urea
- Evaluated for safety on soil health and no negative impact

PRODUCT RANGE

- Granular Urea • 38N + 19S_o3 • 40N + 14S_o3 and 33.5 + 30S_o3

Available in 600kg and 1000kg



Spreading test results for N-Shield Granular Urea

General Data			
Spreader type	Amazone ZA-TS	Spreader width (m)	36 metres
Disc/Vane type	TS3	Application rate setting	250kg/ha
Spread setting	20	Forward Speed	10 kph
PTO/Disc speed (R.P.M)	900	Crop/Ground conditions	Grass
Spreader height (cm)	80cm from side of disc	Wind speed	2 km/h

*Based on performance vs. Urea (N=107 trials, range of crops – Source BASF) **Based on performance vs. Urea (N=6 trials, winter wheat, UK - Source BASF/ADAS)

**Comparison of Limus vs. NBPT when applied at the same total ai concentration on the urea granules.



SHUTTON
NEW HOLLAND
WOOTTON
BACUP



SONIA

SONIA

trans

TRANSPORT & LOGISTICS

Our in house transport team are highly motivated and strive for excellence every day to provide our customers with a first class service.

From the factory to your farm, we can deliver whatever, wherever, quickly and on time. This area of our business allows flexibility and the ability to adapt quickly to changes and support our customers needs. We offer delivery of full loads, part loads and multiple drop deliveries at relatively short notice.





OUR SERVICES

FERTILISER SECURITY

As a leading fertiliser merchant, under the Fertiliser Industry Assurance Scheme (FIAS), Thomas Bell & Sons Ltd have been accredited with the FIAS Merchants, Manufacturing and Haulage standard for Fertiliser. Under the terms of many of the Livestock and Arable Farm Assurance Schemes, fertiliser should be supplied by a FIAS accredited merchant, which gives full traceability of the products supplied.

FIAS meets all the criteria the Government has set for the security and traceability of all fertilisers. For more information contact one of our in house team.

CALIBRATING YOUR SPREADER

We recommend that your spreader is calibrated separately for every product to be applied. We recommend SCS Spreader & Sprayer Testing Ltd - www.spreadcheck.com



SPREADER SETTINGS

To get the best results from your fertiliser you need the correct spreader settings. We can offer spreader settings for all of our products. Contact one of our team for more information or visit your spreader manufacturers website.

Have you heard?

LITHAN spreads to 36m



LITH AN

A reliable Ammonium Nitrate proven to spread to 36m with the correct settings

Thomas Bell & Sons Ltd

F e r t i l i s e r I m p o r t e r s



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