

Manual Blast Systems

Semi/Fully Automated
Blast Systems

Robotic Blast Systems

Ultrasonic Baths
and Tanks

Multi-Stage Aqueous
Ultrasonic Systems

Mono and Co-Solvent
Ultrasonic Cleaning Systems

Rotary Basket Spray Wash
Systems

Conveyorised Spray Wash
Systems

Spares Parts / Blast Media

BLAST MEDIA DATA SHEET - GUYSON ALUSAD

(turbine wheel and dry compressed air systems)



GENERAL

Guyson Alusad is a bright aluminium granulate of spherical shape free from slag inclusions. It is degassed and refined in a controlled melting operation to produce a high quality, if rather specialised blast medium.

Due to its light, soft characteristics, Alusad causes minimal wear to all blast systems and the product itself has a long abrasive life.

Alusad would generally be used in wheel/turbine or pressure blast systems, but some of the smaller beads could also be used in suction feed systems.

TYPICAL APPLICATIONS

Bright cleaning of aluminium components, which may be damaged by denser stainless steel media

Chemical Composition

Aluminium bead

Copper	:	6.0 – 6.5%
Iron	:	1.1 – 1.5%
Zinc	:	1.0 – 1.5%
Silicon	:	0.6 – 1.2%
Manganese	:	0.3 – 0.6%
Magnesium	:	0.2% approx.
Lead	:	0.15% maximum

Physical Data

Shape	:	Spherical
Colour	:	Bright aluminium
Bulk density	:	1.5 – 1.7g/cc

Sizes Available : Nominal Size Range (microns)

A3	:	200 – 400
A6	:	200 – 800
A8	:	800 – 1200
A12	:	1200 – 2000
A16	:	2000 – 2800

Pack Size : 25 kg

See Guyson MSDS reference 43 for all other details

Alusad is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON FLASHBEAD

(for use with dry compressed air systems)



GENERAL

Guyson Flashbead is a specialised non-abrading polystyrene thermoplastic product, produced for use where other deburring or deflashing products such as Thermoflash and Flashgrain are too large

APPLICATIONS

Deflashing thermoset plastic mouldings and die castings, deburring machined metallic or sintered components. Intricate deburring of fine slots and knife blade edges after grinding without sharp edges being affected

CHEMICAL COMPOSITION

Styrene Divinylbenzene Copolymer

PHYSICAL DATA

Shape : Spherical
Colour : Clear / white
Specific gravity : 1.05
Hardness : Mohs 3.5

Size Available : Nominal Size
(microns)

225

Pack Size : 5 kg tub
25 kg box

See Guyson MSDS reference 26 for all other details

Flashbead is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON FLASHGRAIN

(for use with dry compressed air systems)



GENERAL

Guyson Flashgrain is a polycarbonate thermoplastic product, produced from accurately cut extruded strands of polymer. Hard and non-abrasive, this is the toughest of the impact deflashing plastic products and it retains its cylindrical shape during blasting. Dust free during blasting, breakdown over long periods of use is minimal.

APPLICATIONS

Deflashing standard thermoset and reinforced thermoset plastic mouldings and die castings, deburring machined metallic or sintered components.

Chemical Composition

Polycarbonate

Physical Data

Shape : Cylindrical
Colour : Normally white/yellow
Specific gravity : 1.23
Bulk density : 0.74 kg/l
Hardness : 130 HRc (3 Mohs)

Sizes Available : Nominal Size (microns)

030 : 750
045 : 1000
060 : 1500

Pack Size : 5 kg tub / 25 kg box

See Guyson MSDS reference 33 for all other details

Flashgrain is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON FLASHGRIT

(for use with dry and wet compressed air systems)



GENERAL

Guyson Flashgrit is a specially produced soft acrylic thermoplastic blast media, often specified for military and aerospace dry stripping i.e. paint removal applications

All product is manufactured to comply with US Military specification MIL-P-85891A and Rolls-Royce CSS227 standards

It is commonly known as US Type 5 plastic media

APPLICATIONS

Removal of paint and coatings from aluminium and composite materials, whilst leaving the substrate undamaged.

The blast pressures required to achieve the dry stripping action are generally lower than those required when using other thermoset plastic products, normally up to 3 bar / 40 psi

Chemical Composition

Poly Methyl Metacrylic Polymer

Sizes Available*: 12/16, 16/20, 20/30, 30/40,
40/60, 60/80

Pack Size : 25 kg box / 125 kg drum

*not all sizes are available from stock

See Guyson MSDS reference 13 for all other details

Physical Data

Shape	:	Semi-cubic/angular
Colour	:	Multi-coloured or grey/white
Specific gravity	:	1.15 / 1.2
Bulk density	:	0.60 / 0.65 kg/l
Hardness	:	2.5 - 4.0 Mohs Barcol 46-54

Flashgrit is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON FLEXGRAIN

(turbine wheel and dry compressed air systems)



General

Guyson Flexgrain is a specially produced soft iron bead with exceptional cleaning properties. The rounded shape remains during use and the shot multiplies its effectiveness during blasting due to the ricochet effect. The non-aggressive nature of the product allows it to be used for gentle removal of surface deposits without damage to sensitive substrates. Wear on blast equipment is minimised and the media itself has an excellent blast life, which reduces dust to very low levels.

Flexgrain would generally be used in wheel/turbine or pressure blast systems, but is still effective when used in suction feed systems.

Typical Applications

Cleaning and reconditioning without dimensional change e.g. mould and die cleaning. Also carbon and light corrosion removal.

Chemical composition: Iron bead

Iron : 98.70% minimum

Additionally includes small quantities of carbon, sulphur, phosphorus, manganese and silicon.

Physical data

Shape : Spherical
Colour : Grey / black metallic
Apparent density : Not less than 3.5g/cc
Hardness : 28 – 36 HRC (280 – 345 VPN)

Size Available : 150 – 300 microns

Pack Size : 25 kg

See Guyson MSDS reference 46 for all other details

Flexgrain is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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Spares Parts / Blast Media

BLAST MEDIA DATA SHEET - GUYSON FLEXGRIT

(turbine wheel and dry compressed air systems)



General

Guyson Flexgrit is a specially produced soft iron bead with exceptional cleaning properties. The rounded shape appears more obvious during use as the media becomes conditioned and the shot multiplies its effectiveness during blasting due to the ricochet effect. The non-aggressive nature of the product allows it to be used for gentle removal of surface deposits without damage to sensitive substrates. Wear on blast equipment is minimised and the media itself has an excellent blast life, which reduces dust to very low levels.

Flexgrit would generally be used in wheel/turbine or pressure blast systems.

Typical Applications

Cleaning and reconditioning without dimensional change e.g. mould and die cleaning. Also carbon and light corrosion removal.

Chemical composition: Iron bead

Iron : 98.70% minimum

Additionally includes small quantities of carbon, sulphur, phosphorus, manganese and silicon.

Size Available : 300 – 500 microns

Pack Size : 25 kg

See Guyson MSDS reference 46 for all other details

Physical data

Shape : Spherical (when conditioned)
Colour : Grey / black metallic
Apparent density : Not less than 3.5g/cc
Hardness : 28 – 36 HRC (280 – 345 VPN)

Flexgrit is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON GLASSGRIT

(for use with all compressed air blast systems - dry and wet)



GENERAL

Guyson Glass Grit is a premium quality soda-lime glass grit manufactured specifically for impact blast finishing applications.

It is a chemically inert, iron-free product, chemically identical to Honite glass bead but being ground glass, it has an angular appearance.

Glass grit has a mildly abrasive action but there is a more rapid breakdown than there is with alumina

APPLICATIONS

For general blast finish / cleaning applications where an alumina type abrasive may be too aggressive.

Chemical Composition

Soda-lime glass beads

SiO ₂	:	< 75%
Na ₂ O	:	< 15%
CaO	:	< 10%
MgO	:	< 5%
Free iron	:	0.1% (max by weight)

Physical Data

Shape	:	Angular / irregular
Colour	:	White
Specific gravity	:	2.4 – 2.6
Bulk density	:	1.5 g/cc
Hardness	:	Mohs 5

EINECS reference – Not applicable

CAS No – Not applicable

Sizes Available :

Nominal Size Range (microns)

GG300	:	180 – 600
GG500	:	45 – 200

Pack Size : 20 kg

See Guyson MSDS reference 10 for all other details

Glass grit is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal

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BLAST MEDIA DATA SHEET - GUYSON GUYBLAST

(for use with dry compressed air systems)



GENERAL

Guyson Guyblast is a urea based thermoset resin granulated to produce jagged angular shapes that clean with a unique chipping and shearing action. Without the aggression of mineral or metallic media, this product is ideal for cleaning more delicate products or removing surface residue and coatings whilst leaving the substrate undamaged.

It is the most common and popular of the "soft impact" plastic media and is often used for dry stripping on composite and aluminium products i.e. paint removal applications using pressure blast equipment at relatively low pressures.

It is commonly known as US type 2 plastic media.

APPLICATIONS

Paint, coating and carbon removal. Mould, die and tool cleaning. Removal of light flash from die castings or burrs from machined parts. Deflashing of electronic components.

Chemical Composition

Urea Amino Polymer	66 - 70%
Cellulose	30 - 33%

Physical Data

Shape	:	Jagged / angular
Colour	:	Speckled / multicoloured*
Specific gravity	:	1.50
Bulk density	:	0.77 kg/l
Hardness	:	Mohs 3.5
	:	Barcol 54 - 62

Sizes Available : 12/16, 12/20, 16/20, 20/30, 20/40
30/40, 40/60, 60/80

Pack Sizes : 25 kg box / 125 kg drum
: 5 kg tubs

*colours may vary between different batches

See Guyson MSDS reference 19 for all other details

Guyblast can be supplied with aviation certification to Rolls-Royce CSS227 and Military certification to US MIL-P-85891 if required

Guyblast is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON GUYGRAIN

(for use with dry compressed air systems)



GENERAL

Guyson Guygrain is a polyester based thermoset resin, polymerised with styrene monomer plus pigments and additives. It is then granulated to produce jagged angular shapes that clean with a unique chipping and shearing action. Without the aggression of other media, this product is ideal for cleaning more delicate products or removing surface residue and coatings whilst leaving the substrate undamaged.

It is the least aggressive and least common of the "soft impact" plastic media and can be used for dry stripping i.e. paint removal applications using pressure blast equipment at relatively low pressures.

It is commonly known as US type 1 plastic media.

APPLICATIONS

Paint, coating and carbon removal. Mould, die and tool cleaning. Removal of light flash from die castings or burrs from machined parts. Deflashing of electronic components.

Chemical Composition

Polyester resin

Sizes Available :** 12/16, 16/20, 20/30, 30/40, 40/60

Pack Sizes : 25 kg box
125 kg drum

*colours may vary between different batches

**not all sizes available from stock

Physical Data

Shape	:	Jagged / angular
Colour	:	Speckled / multicoloured*
Specific gravity	:	1.50
Bulk density	:	0.77 kg/l
Hardness	:	Mohs 3.0

See Guyson MSDS reference 18 for all other details

Guygrain is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON GUYSTRIP

(for use with dry compressed air systems)



GENERAL

Guyson Guystrip is an amino based thermoset resin, granulated to produce jagged angular shapes that clean with a unique chipping and shearing action. Bridging the gap between harsh mineral media and the soft natural products, Guystrip is ideal for cleaning more delicate products or removing surface residue and coatings whilst leaving the substrate undamaged.

It is the hardest and most aggressive of the "soft impact" plastic media and is often used for dry stripping i.e. paint removal applications using pressure blast equipment at relatively low pressures. When used for cleaning or deburring without dimensional change, sharp edges are retained as the hardness of the product is significantly less than that of a machined metallic product or tool/die.

It is commonly known as US type 3 plastic media.

APPLICATIONS

Paint, coating and carbon removal. Mould, die and tool cleaning. Removal of light flash from die castings or burrs from machined parts. Deflashing of electronic components.

Chemical Composition

Melamine Amino Polymer 66-70%
Cellulose 30-33%

Physical Data

Shape	:	Jagged / angular
Colour	:	Speckled / multicoloured*
Specific gravity	:	1.50
Bulk density	:	0.77 kg/l
Hardness	:	Mohs 4.0 Barcol 62-74

* colours may vary between different batches

Sizes Available : 12/16, 16/20, 20/30, 30/40, 40/60

Pack Size : 25 kg box / 125 kg drum

See Guyson MSDS reference 36 for all other details

Guystrip can be supplied with certification to Rolls-Royce CSS227 and US military MIL-P-85891 if required

Guystrip is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON HONITE

(for use with all compressed air blast systems - dry and wet)



GENERAL

Guyson Honite is a premium quality soda-lime glass bead manufactured specifically for impact blast finishing applications.

It is a chemically inert, iron-free product, available in a range of bead sizes and can be used for a wide variety of cleaning, finishing and peening operations.

TYPICAL APPLICATIONS

Cleaning, Peening, Sheen Surface Finishing, General cleaning of tarnished components, Inert cleaning of sensitive surfaces e.g. auto parts, moulds and dies, removing heat scale and discolouration, creating a none reflective finish, cosmetic blending and covering surface defects etc.

Chemical Composition

Soda-lime glass beads

SiO ₂	:	< 75%
Na ₂ O	:	< 15%
CaO	:	< 10%
MgO	:	< 5%
Free iron	:	0.1% (max by weight)

Physical Data

Shape	:	Spherical and smooth
Colour	:	White
Specific gravity	:	2.4 – 2.6
Bulk density	:	1.5 g/cc
Hardness	:	Mohs 5

EINECS reference - 266-046-0
CAS No 65997-17-3

Sizes Available:

Honite 7	:	600 - 850
Honite 8	:	425 - 600
Honite 9	:	250 - 425
Honite 10	:	180 - 300
Honite 12	:	150 - 250
Honite 13	:	106 - 212
Honite 14	:	75 - 150
Honite 16	:	53 - 106
Honite 18	:	45 - 90
Honite 22	:	4 - 45

Pack Size : 25 kg bag

See Guyson MSDS reference 10 for all other details

Nominal Size Range (microns)

All Guyson Honite can be supplied with certification to Rolls Royce CSS8 aerospace standard should this be required. This is one of the highest conformity standards in the world and many other aerospace standards follow its lead. To achieve compliance, Honite has to pass rigorous batch tests that ensure its physical and chemical properties remain consistent.

Honite is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON IRON SILICATE

(for use with portable pressure pots)



GENERAL

Guyson Iron Silicate is often better known by its original name of copper slag. It is a very cost effective, expendable, synthetic mineral abrasive, manufactured from the waste granulated slag produced by copper refineries.

In appearance, the product is glassy and it tends towards brittle fracture upon impact, which produces a great deal of dust. This property means that it is only suited to use in open blasting applications and should not be used in any re-circulating systems.

However, if used as intended, the abrasive nature of the product makes it ideal for rapid corrosion removal prior to a re-coating process.

Users should be mindful of the fact that although not harmful to health, the black dust created should be regarded as a nuisance by anyone coming into contact with it.

TYPICAL APPLICATIONS

Mainly site blasting applications e.g. removal of corrosion and paint prior to recoating. Typical users would be contract blasters working on site, cleaning steelwork, commercial vehicle chassis etc.

Sizes Available : Nominal Size Range

Coarse : 200 – 1700 (microns)

Pack Size : 25 kg sack

See Guyson MSDS reference 25 of all other details

Physical Data

Shape : Angular
Colour : Black / glassy
Specific gravity : 3.3
Bulk density : 1.7g/cc
Hardness : 7 – 8 Mohs

Chemical Composition (typical)

Iron Silicate

FeO : 38 – 45%
SiO₂ : 33 – 38%
Al₂O₃ : 3 - 5%
CaO : 2 - 6%
MgO : 1 - 3%
Na₂O : 0.5 – 1%
MnO : 0.1 – 0.3%

Free silica <1%

Iron Silicate is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON LOYGRAIN

(for use with dry compressed air systems)



GENERAL

Guyson Loygrain is a biodegradable, natural product, made entirely from the woody portions of corn cob. As well as having blast cleaning properties, the cob is absorbent and will remove light oil or fluid on the surface being treated. As the product is quite soft, there is little chance of damage to component substrates. It can also be used for non-blasting applications such as the removal of soils from marine turbines etc.

APPLICATIONS

- Removal of corrosion and carbon from automotive components and electrical equipment.
- Deflashing and cleaning without dimensional change.
- Cleaning marine turbines.

Chemical composition

Ligno cellulose

Physical data

Shape : Angular
Colour : Cream / brown
Specific gravity : 1.20
Bulk density : 0.50 kg/l
Hardness : 2.00 - 4.5 Mohs

Sizes Available : Mesh Sizes

D3 : 8/12
D2 : 12/16
D1 : 16/24

Pack Size : 25 kg

See Guyson MSDS reference 23 for all other details

Loygrain is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON SAFTIGRAIN

(for use with all compressed air blast systems - dry and wet)



GENERAL

Guyson Saftigrain is an economy blast media consisting mainly of a blend of brown, white and pink alumina. This product is obtained by reclaiming ceramic bonded grinding wheels and other products used within the abrasives industry.

It is a general purpose abrasive and can be specified for applications where a ferrous content (up to 1%) is acceptable.

TYPICAL APPLICATIONS

General engineering and restoration/renovation projects. Saftigrain is ideal for the removal of corrosion, paint, weld scale etc. and the preparation of surfaces prior to painting, bonding etc.

Chemical composition (average):

Reclaimed alumina

Al ₂ O ₃	:	88.10%
SiO ₂	:	6.80%
SiC	:	5.80%
TiO ₂	:	0.70%
Fe ₂ O ₃	:	0.20%
CaO + MgO	:	1.60%

Physical data

Shape	:	Angular
Colour	:	Mixture of brown/white/pink/black
Specific gravity	:	3.85 - 3.94
Bulk density	:	1.5 - 1.8 g/cc (dependent upon grain size)
Hardness	:	Mohs 9

EINECS reference - see MSDS
CAS No - see MSDS

Range Sizes : 24/20, 30/40, 40/60, 60/80, 80/120, 120/180, 180/220

Pack Size : 25 kg bag

See Guyson MSDS reference 11 for all other details

Saftigrain is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

Guyson International Limited

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Systems

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Systems

Spares Parts / Blast Media

BLAST MEDIA DATA SHEET - GUYSON SAFTIGRIT BROWN

(for use with all compressed air blast systems - dry and wet)



GENERAL

Guyson Saftigrit Brown is a premium quality brown alumina manufactured by reduction melting from high grade bauxite in an electric arc furnace using the block method. It is also referred to as Brown Bauxilite, Brown Fused Alumina and Brown Corundum.

It is an extremely durable and tough alumina with low metallic iron content and is ideal for applications where fast cutting and consistent quality is required. Additionally, this is the most economic virgin alumina available.

TYPICAL APPLICATIONS

Cleaning, Removing Corrosion and Other Surface Deposits, Roughening, Etching and Decorating

High quality, durable abrasive with low metallic iron content. With a fast cutting, tough, long lasting character and consistent quality, this abrasive is specified by leading aircraft and automotive component manufacturers.

Chemical composition

Brown fused alumina

Al ₂ O ₃	:	95.65%
TiO ₂	:	2.42%
SiO ₂	:	0.92%
Fe ₂ O ₃	:	0.12%
CaO + MgO	:	0.57%

Physical data

Shape	:	Angular
Colour	:	Brown
Specific gravity	:	3.94
Bulk density	:	1.5 – 2.1 g/cc (dependent upon grain size)
Hardness	:	Mohs 9

EINECS reference 215-691-6
CAS No 1344-28-1

Sizes Available

FEPA Spot Sizes*: 8, 10, 12, 14, 16, 20, 24, 30,
36, 46, 54, 60, 70, 80, 90,
100, 120, 150, 180, 220

Range Sizes : 24/30, 30/40, 40/60, 60/80,
80/120, 120/220, 180/220,
220/280

Pack Size : 25 kg bag

*Not all sizes available from stock

See Guyson MSDS reference 34 for all other details

All Guyson Brown Saftigrit can be supplied with certification to Rolls Royce CSS12 aerospace standard should this be required. This is one of the highest conformity standards in the world and many other aerospace standards follow its lead.

To achieve compliance, Brown Saftigrit has to pass rigorous batch tests that ensure its physical and chemical properties remain consistent.

Brown Saftigrit is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON SAFTIGRIT PINK

(for use with all compressed air blast systems - dry and wet)



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Robotic Blast Systems

Ultrasonic Baths and Tanks

Multi-Stage Aqueous Ultrasonic Systems

Mono and Co-Solvent Ultrasonic Cleaning Systems

Rotary Basket Spray Wash Systems

Conveyorised Spray Wash Systems

Spares Parts / Blast Media

GENERAL

Guyson Saftigrit Pink is a premium quality pink alumina manufactured by reduction melting from high grade bauxite in an electric arc furnace using the block method. The addition of a small percentage of Chromium Oxide gives this product its distinctive pink colouration. It is also referred to as Pink Bauxilite, Pink Fused Alumina and Pink Corundum.

It is an extremely durable and tough alumina with low metallic iron content and is ideal for applications where no contamination can be tolerated. Pink Saftigrit combines the toughness of the brown product (due to the addition of a small percentage of Titanium Dioxide) with the sharpness of the white.

TYPICAL APPLICATIONS

Cleaning, Removing Corrosion and other Surface Deposits, Roughening, Etching and Decorating

Chemical composition

Pink fused alumina

Al ₂ O ₃	:	99.30%
MgO	:	0.5% max
Na ₂ O	:	0.26%
Cr ₃ O ₂	:	0.22%
Fe ₂ O ₃	:	0.04%
SiO ₂	:	0.02%
CaO	:	0.01%

Physical data

Shape	:	Angular
Colour	:	Pink
Specific gravity	:	3.94
Bulk density	:	3.0 – 3.5 g/cc (dependent upon grain size)
Hardness	:	Mohs 9

EINECS reference 215-691-6
CAS No 1344-28-1

Sizes Available

FEPA Spot Sizes* : 8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220

FEPA Microgrits* : F230, F240, F280, F320, F360, F400, F500, F600, F800, F1000, F1200

Range Sizes* : 24/30, 30/40, 40/60, 60/80, 180/220, 120/220, 180/220, 220/280

Pack Size : 25 kg bag

*Not all sizes available from stock

See Guyson MSDS reference 41 for all other details

All Guyson Pink Saftigrit can be supplied with certification to Rolls Royce CSS12 aerospace standard should this be required. This is one of the highest conformity standards in the world and many other aerospace standards follow its lead.

To achieve compliance, Pink Saftigrit has to pass rigorous batch tests that ensure its physical and chemical properties remain consistent.

Pink Saftigrit is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON SAFTIGRIT WHITE

(for use with all compressed air blast systems - dry and wet)

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Blast Systems

Robotic Blast Systems

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Ultrasonic SystemsMono and Co-Solvent
Ultrasonic Cleaning SystemsRotary Basket Spray Wash
SystemsConveyorised Spray Wash
Systems

Spares Parts / Blast Media

GENERAL

Guyson Saftigrit White is a premium quality white alumina manufactured by melting a special grade of calcined alumina (aluminium oxide) in an electric arc furnace using the block method. It is also referred to as White Bauxilite, White Fused Alumina and White Corundum.

It is an ultra pure, iron-free product, the hardest of all the different types of alumina and is ideal for applications that need a high cutting ability and when freedom from contamination is vital.

TYPICAL APPLICATIONS

Cleaning, Removing Corrosion and Other Surface Deposits, Roughening, Etching and Decorating

High quality applications where no contamination can be tolerated. Ideal for blasting of materials such as stainless steel, titanium, lead crystal glassware and other materials where surface cleanliness is imperative.

Chemical composition

White fused alumina

Al ₂ O ₃	:	99.81%
CaO	:	0.006%
Fe ₂ O ₃	:	0.035%
Na ₂ O	:	0.11%
SiO ₂	:	0.02%

Physical data

Shape	:	Angular / square
Colour	:	White
Specific gravity	:	3.94
Bulk density	:	3.0 – 3.5 g/cc (dependent upon grain size)
Hardness	:	Mohs 9

EINECS reference 215-691-6
CAS No 1344-28-1

Sizes Available

FEPA Mesh Sizes*: 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220

FEPA Microgrits* : F220, F240, F280, F320, F360, F400, F500, F600, F800, F1000, F1200

Range Sizes :** 80/90, 90/100, 120/150, 180/220, 220/240, 240/280, 280/300

Pack Size : 25 kg bag

*Not all sizes available from stock

See Guyson MSDS reference 12A for all other details

All Guyson White Saftigrit can be supplied with certification to Rolls Royce CSS12 aerospace standard should this be required. This is one of the highest conformity standards in the world and many other aerospace standards follow its lead.

To achieve compliance, WhiteSaftigrit has to pass rigorous batch tests that ensure its physical and chemical properties remain consistent.

White Saftigrit is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON SAFTIMETAL

(turbine wheel and dry compressed air systems)



GENERAL

Guyson Saftimetal is a high quality, chilled hematite cast iron abrasive with excellent performance characteristics. Throughout its use, the grit remains sharp edged and will produce a clean and bright surface finish. This product has a superior service life than standard chilled iron and with its slow breakdown rate, dust problems are minimal. It is also referred to as angular iron grit.

Saftimetal would generally be used in wheel/turbine or pressure blast systems and is much harder than the equivalent Turbogrit steel abrasive.

TYPICAL APPLICATIONS

General engineering, surface treatment and refurbishment applications. Saftimetal is ideal for the removal of corrosion, paint, weld scale etc. and the preparation of surfaces prior to painting, bonding etc.

Chemical composition (typical)

Chilled iron grit

Carbon	:	3.12%
Silicon	:	1.57%
Manganese	:	0.56%
Copper	:	0.30%
Chrome	:	0.19%
Nickel	:	0.17%
Sulphur	:	0.12%
Phosphorous	:	0.11%

Various other elements at less than 0.05%

Physical data

Shape	:	Angular
Colour	:	Silver / black metallic
Apparent density	:	Not less than 7.6g/cc
Hardness	:	62 – 64 HRC (740 – 800 VPN)

Sizes Available : Nominal Size Range (microns)

G07	:	180 – 420
G12	:	300 – 710
G17	:	420 – 850
G34	:	850 – 1200
G47	:	1200 – 1700

Pack Size : 25 kg bag

See Guyson MSDS reference 15 for all other details

Saftimetal is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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Spares Parts / Blast Media

BLAST MEDIA DATA SHEET - GUYSON SILICON CARBIDE

(all compressed air systems - dry and wet)



GENERAL

Guyson Silicon Carbide is a premium quality abrasive manufactured by combining silica sand with carbon in an electric resistance furnace. It is also referred to as Carborundum.

It is chemically inert and is also harder than any of the alumina products, which makes it ideal for applications where rapid or aggressive surface treatment is required.

APPLICATIONS

Cleaning and roughening of the hardest surfaces, including glass and stone.

Chemical composition

Black Silicon Carbide

SiC	:	98.6%
SiO ₂	:	0.25%
Si	:	0.15%
Fe ₂ O ₃	:	0.05%

Physical data

Shape	:	Angular
Colour	:	Black
Specific gravity	:	3.22
Bulk density	:	3.0 – 3.5 g/cc (dependent upon grain size)
Hardness	:	Mohs 9 - 9.5

EINECS reference – see MSDS

CAS No - see MSDS

Sizes Available

FEPA Mesh : 12, 14, 16, 20, 24, 30, 36, 46, 54,
60, 70, 80, 90, 100, 120

Sizes* : 150, 180, 220

Pack Size : 25 kg

*Not all sizes available from stock

See Guyson MSDS reference 48 for all other details

Silicon Carbide is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal

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BLAST MEDIA DATA SHEET - GUYSON SINTERBALL

(for use with dry compressed air systems)



GENERAL

Guyson Sinterball is a high quality aluminium oxide blast medium specifically developed to provide excellent cutting power and durability. It is often used as an alternative to Sافتgريت Brown. Sinterball is manufactured by sintering various mineral compounds at high temperature to produce a hard, dense, spherical medium.

Due to its method of manufacture, Sinterball wears surfaces away rather than relying on the jagged profile associated with normal alumina products. This provides low dust levels and a longer product life. As the particle size remains more consistent, Sinterball is manufactured in only a few selected mesh sizes.

APPLICATIONS

Cleaning, removing corrosion and other surface deposits, roughening and etching. It is often favoured by stone masons when blasting through stencils to produce lettering on memorials.

Mineralogical composition

Alpha alumina : 80%
Mullite : 10%
Spinel : 10%
(complex ferro-titanium silicates)

Physical data

Shape : Spherical
Colour : Black
Specific gravity : 3.77
Bulk density : 2.1g/cc
Hardness : Mohs 9

Sizes Available

Range Sizes : 16/20, 20/40, 35/70

Pack Size : 25 kg bag

See Guyson MSDS reference 37 for all other details

Sinterball is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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Systems

Spares Parts / Blast Media

BLAST MEDIA DATA SHEET - GUYSON THERMOFLASH

(turbine wheel and dry compressed air systems)



GENERAL

Guyson Thermoflash is a polyamide nylon thermoplastic product, produced from accurately cut extruded strands of polymer. Tough and resilient, it gradually rounds during blasting, but retains edges for most of its life. It is non-abrading and completely dust free during blasting. Breakdown over long periods of use is minimal.

APPLICATIONS

Deflashing thermoset plastic mouldings and die castings, deburring machined metallic or sintered components.

Chemical Composition

Polyamide nylon type 6

Sizes Available

Cube size in mm : 0.5, 0.75, 1.0, 1.5, 2.0

Pack Size : 5 kg tub
25 kg box

See Guyson MSDS reference 32 for all other details

Physical Data

Shape : Cubic
Colour : Red or Natural
Specific gravity : 1.15
Bulk density : 0.68 kg/l
Hardness : Mohs 3.2
Barcol 25-35

Thermoflash is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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Spares Parts / Blast Media

BLAST MEDIA DATA SHEET - GUYSON TURBOBEAD

(turbine wheel and dry compressed air systems)



GENERAL

Guyson Turbobeat is heat-treated carbon steel bead with a uniform Martensitic structure. This provides excellent resilience and resistance to fatigue. The rounded shape remains during use and the shot multiplies its effectiveness during blasting due to the ricochet effect. Wear on blast equipment is minimised and the media itself has an excellent blast life.

Turbobeat would generally be used in wheel/turbine or pressure blast systems, but some of the smaller beads could also be used in suction feed systems

TYPICAL APPLICATIONS

Cleaning, deburring and preparing ferrous surfaces. Reconditioning. Shot peening

Chemical composition:

Carbon steel bead

Carbon	:	0.85 – 1.20%
Manganese	:	0.35 – 1.20%
Silicon	:	0.40 – 1.50%
Sulphur	:	0.05% maximum
Phosphorous	:	0.05% maximum

Physical data

Shape	:	Spherical
Colour	:	Silver / black metallic
Apparent density	:	Not less than 7g/cc
Hardness	:	40 – 50 HRC (390 – 510 VPN)

Sizes Available

S070	:	180 - 350
S110	:	300 - 500
S170	:	420 - 710
S230	:	600 - 850
S280	:	710 - 1000
S330	:	850 - 1200
S390	:	1000 - 1400
S460	:	1200 - 1680

Nominal Size Range (microns)

Pack Size : 25 kg

See Guyson MSDS reference 24 for all other details

Turbobeat is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal

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BLAST MEDIA DATA SHEET - GUYSON TURBOGRIT

(turbine wheel and dry compressed air systems)



GENERAL

Guyson Turbogrit is heat-treated carbon steel grit, produced by crushing oversized shot pellets. When new, this product is angular but during use, the sharp edges will become round. This allows the blasting process to combine the mass effect of shot with the cutting edge of grit.

Turbogrit would generally be used in wheel/turbine or pressure blast systems, but some of the smaller grits could also be used in suction feed systems

TYPICAL APPLICATIONS

General engineering, surface treatment and refurbishment applications. Turbogrit is ideal for the removal of corrosion, paint, weld scale etc. and the preparation of surfaces prior to painting, bonding etc.

Chemical Composition:

Carbon steel grit

Carbon	:	0.85 - 1.20%
Manganese	:	0.35 - 1.20%
Silicon	:	0.40 - 1.50%
Sulphur	:	0.05% maximum
Phosphorous	:	0.05% maximum

Physical data

Shape	:	Angular
Colour	:	Silver / black metallic
Apparent density:		Not less than 7g/cc
Hardness	:	40 – 50 HRC (390 – 510 VPN)

Sizes Available : Nominal Size Range (microns)

G05	:	125 - 30
G07	:	180 - 425
G12	:	300 - 710
G17	:	420 - 1000
G24	:	700 - 1200
G34	:	1000 - 1400

Pack Size : 25 kg bag

See Guyson material safety data sheet reference 24 for all other details

Turbogrit is a non-toxic and non-hazardous product.

No special disposal precautions are required for the product once it has been used for blast finishing purposes.

However, contamination from a specific application or process must also be considered prior to disposal.

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Spares Parts / Blast Media

BLAST MEDIA DATA SHEET - GUYSON TURBOLLOY

(turbine wheel and dry compressed air systems)



GENERAL

Guyson Turbolloy is a specially produced cut wire product manufactured from brass wire. There are limited applications and this product is not specified very often, partly due to its high cost.

Turbolloy would generally be used in wheel/turbine or pressure blast systems, but is still effective when used in suction feed systems.

TYPICAL APPLICATIONS

Treatment of copper or brass components to give a bright sheen finish after forging or forging prior to further finishing processes such as plating or polishing.

Physical composition

Cut brass wire

Size Available : 500 micron

Pack Size : 25 kg bag

See Guyson MSDS reference 46 for all other details

Physical data

Shape : Cut wire pellet
Colour : Brass / metallic
Density : 8.5g/cc (approx)

Turbolloy is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON TURBONOX

(turbine wheel and dry compressed air systems)



GENERAL

Guyson Turbonox is austenitic (chromium and nickel) stainless steel shot produced by water atomisation of molten steel, with subsequent sieving and thermal/mechanical treatment.

Turbonox would generally be used in wheel/turbine or pressure blast systems.

TYPICAL APPLICATIONS

Cleaning, deburring and finishing all non - ferrous surfaces wherever ferrous embedding would cause discolouration or trace surface corrosion.

Chemical composition

Stainless steel bead

Chromium	:	16.00 - 18.00%
Nickel	:	7.00 - 9.00%
Silicon	:	1.50 - 2.50%
Manganese	:	0.70 - 1.30%
Carbon	:	0.15 - 0.25%

Physical data

Shape	:	Rounded or globular
Colour	:	Light silver grey
Bulk density	:	4.70 kg/l
Specific gravity	:	7.40 kg/l
Hardness	:	28 HRc (280 VPN)

Sizes Available : Nominal Size Range (microns)

10	:	60 - 200
20	:	100 - 300
30	:	200 - 400
40	:	300 - 600
60	:	500 - 1000

Pack Size : 25 kg bag

See Guyson MSDS reference 21 for all other details

Turbonox is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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Ultrasonic Baths
and Tanks

Multi-Stage Aqueous
Ultrasonic Systems

Mono and Co-Solvent
Ultrasonic Cleaning Systems

Rotary Basket Spray Wash
Systems

Conveyorised Spray Wash
Systems

Spares Parts / Blast Media

BLAST MEDIA DATA SHEET - GUYSON WALNUT SHELL

(for use with dry compressed air systems)



GENERAL

Guyson walnut shell blast media is a biodegradable, natural product made entirely from ground or crushed walnut shells. As the product is relatively soft, there is little chance of damage to component substrates.

APPLICATIONS

- Removal of corrosion and carbon from automotive components and electrical equipment
- Deflashing, deburring and cleaning without dimensional change.
- Cleaning marine turbines.
- Removing paint and graffiti

Chemical Composition

Walnut shell (ground and sieved)

Water content : 10 -15%

Physical Data

Shape : Angular
Colour : Light brown
Bulk Density : 0.44 – 0.77 kg/l
Hardness : 3.00 – 3.50 Mohs

Sizes Available : 8/16, 16/30, 25/52 40/100,
60/120

Pack Size : 25 kg

See Guyson MSDS reference 40 for all other details

Walnut shell is a non-toxic and non-hazardous product that contains no free silica. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.

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BLAST MEDIA DATA SHEET - GUYSON ZIRBLAST

(all compressed air systems - dry, wet and turbine wheel)



GENERAL

Semi/Fully Automated Blast Systems

Guyson Zirblast and Zirshot are high quality fused ceramic beads manufactured from crystalline zirconia bonded with amorphous silica. Both products have a very slow breakdown rate and as such are ideal for impact finishing operations involving automated machinery, where consistency of finish is important. Additionally, dust levels generated are considerably lower than with the equivalent glass bead.

Robotic Blast Systems

Whilst both products are chemically identical, quality checks to roundness, surface defects etc allows Zirshot to be certified to the demanding standards of aerospace shot peening applications. Zirblast is designed for all other impact finishing applications and is available at a more economic price.

Ultrasonic Baths and Tanks

Being chemically inert and iron-free products, these beads can be used for a wide variety of applications such as cleaning without dimensional change, shot peening, stress relieving, deburring, scale removal etc

Zirshot can be supplied with certification to most aerospace standards should these be required.

Multi-Stage Aqueous Ultrasonic Systems

Chemical composition

ZrO ₂	:	62%
SiO ₂	:	28%
Al ₂ O ₃	:	4.5%
CaO	:	3.5%
Fe ₂ O ₃	:	0.14%
TiO ₂	:	0.34%

Physical data

Shape	:	Spherical
Colour	:	White
Specific gravity	:	3.80
Bulk density	:	2.3 g/cc
Hardness	:	60 HRc (Vickers 700 HV1)

EINECS reference – See MSDS
CAS No 1344-28-1 – See MSDS

Sizes Available : Nominal Size Range (microns)

B20	:	600 – 850
B30	:	425 – 600
B40	:	250 – 425
B60	:	125 – 250
B120	:	70 – 125
B125	:	0 – 125
B205	:	0 – 70

Pack Size : 25 kg

See Guyson MSDS reference 39 for all other details

Zirblast and Zirshot are non-toxic and non-hazardous products that contain no free silica. No special disposal precautions are required for the products once they have been used for blast finishing purposes.

However, contamination from a specific application or process must also be considered prior to disposal.

Rotary Basket Spray Wash Systems

Conveyorised Spray Wash Systems

Spares Parts / Blast Media

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