

ACTON[®]
FINISHING

Surface Finishing Media & Compounds

we redefine

Specially Formulated Consumables



We offer a range of Finishing Consumables to help our customers achieve the surface finish they need. We can cater to all your application requirements including deburring, degreasing & oil removal, cleaning, descaling, radiusing, smoothing and polishing. We will offer you full support every step of the way.

we redefine:

- Vibratory Finishing
- High Energy Finishing
- Shot Blasting
- Consumables
- Precision Polishing
- Subcontract Services

Why Choose Us?

We're a family run business that pride ourselves on working as a strong, unified team of specialists.

We believe in British

Born in the United Kingdom, we are unique in our product design and the manufacture of our specialist machines and consumables.

We're here for you

Being based in the heart of the country means we have easy access to all of our clients.

We have experience

With five decades of experience and knowledge in the finishing industry, we know what works for you.

We provide options

We have an impressive range of media and compounds to choose from, including one of the best polishing compounds in the market. We also provide a wide range of machinery and subcontract services to meet all of your needs.

We go the extra mile

We'll tailor our services to your needs, not the other way round. Our service is all about you.

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Man x Machine x Media = M³

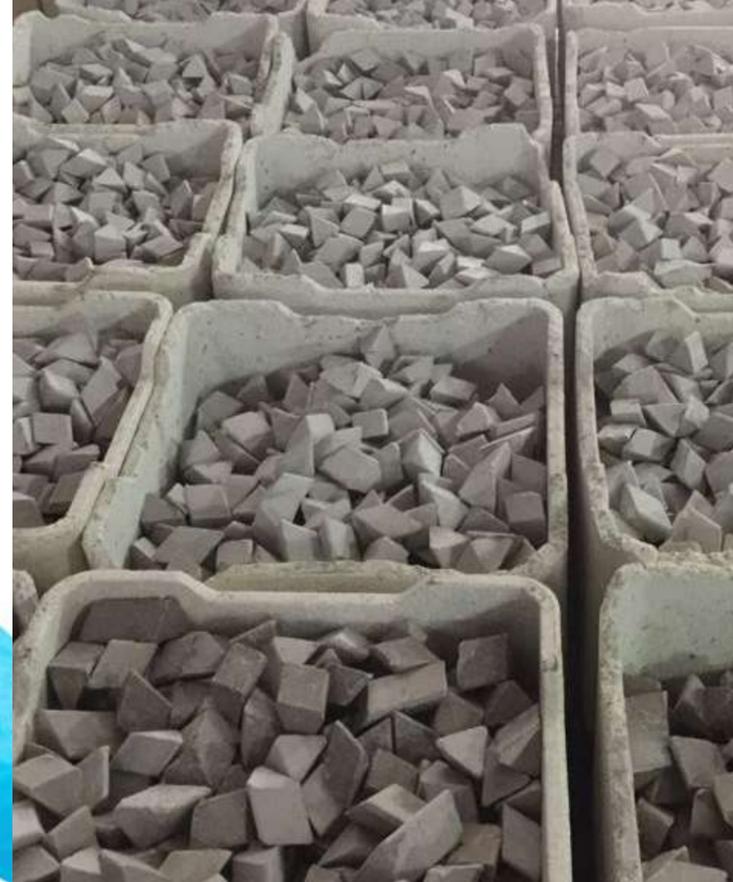
The thinking behind our consumables.



Over the years, we have been at the forefront of the industry, developing a range of specially formulated consumables approved by the manufacturing industry.

Working closely with highly skilled manufacturers, our Engineers understand the numerous challenges faced in the industry and have developed suitable consumables accordingly. Our R&D department always sets high standards for the environmentally friendly, biodegradable compounds and high quality media.

We are highly committed to continuously developing and expanding our range of consumables to suit any given application.



Ceramic Media

We manufacture our ceramic media at our facility in Kedah, Malaysia and it is subject to strict quality control to ensure our customers receive a great product every time. We have developed our own recipes and we use only high-quality raw materials to ensure the final product meets our customers' standards.

Our ceramic media is manufactured by mixing an abrasive, such as aluminium oxide, silicon carbide or quartz, with a ceramic matrix in a wet state. The matrix is extruded through various shaped dies and wire cut into small pieces. The preformed media is then fired at high temperatures through a kiln for up to 24 hours with precise heat up and cool down cycles. The ceramic pieces can then be pre-conditioned to remove any flash if required.

Mass Finishing Compounds

We develop, test and continuously improve the formulation of our liquid, powder and paste compounds at our facility in Coventry, UK. This is also the place where we manufacture our compounds. All ActOn compounds are environmentally friendly and are formulated for vibratory and high energy finishing machines.



Plastic Media

We manufacture our plastic media using the same high standards as we do for our ceramic media. Our R&D department is continuously developing our recipes and the range of media shapes and dimensions to our customers' needs. ActOn plastic media can be used for a long time even if it wears down, as it will maintain its shape.

Our plastic media is manufactured by mixing an abrasive with a polyester or synthetic based resin fluid, with a catalyst added to harden the matrix. After media is molded into specific shapes and it hardens, this is tumbled to remove any flash.

Selecting ActOn Consumables

The recipe to achieve the required surface finish involves using the correct machinery, media and compound. At ActOn, we offer the complete package. The following factors must be considered when choosing the right media and compound.

1. Type

ActOn offers different media types such as Ceramic, Plastic, Agro, Pre-Treated and Stainless Steel. The media transmits the energy generated by the equipment to the parts being processed and are capable of heavy burr removal, edge radiusing to smooth and bright surfaces.

Ceramic Media is recommended for removing burrs, edge radiusing, burnishing and to quickly remove polishing lines on components made from harder materials. Faster cut Medias are designed to be softer, thus allowing the cutting elements to be exposed. Polishing Medias are harder (which contain no abrasives) and are used for burnishing. In general, the slower the cut, the harder the media.

Plastic Media is lightweight and is manufactured out of soft bonding agents, which allows it to remove burrs without rolling the burr onto the part. Furthermore, we recommend using this media to achieve a very smooth surface finish, or a bright or matte finish on components made from softer materials.

Agro Media can be used for surface brightening or final finish refinement. The Pre-treated Media is recommended for achieving a high lustre or mirror finish on components.

Applications for Stainless Steel Media include burnishing, cleaning, improving compressive strength and light deburring.

2. Size

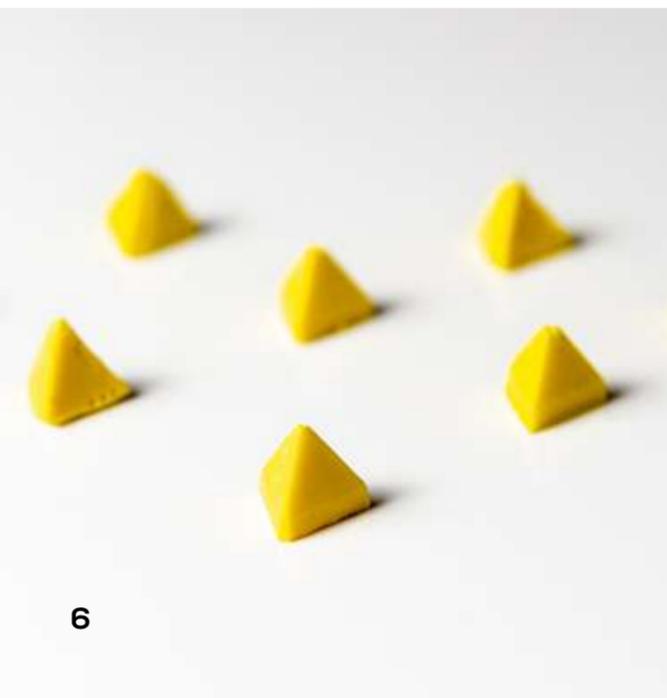
The component finish is also subject to the size of media chosen. A larger media will generate higher energy; hence it will cut and finish faster with higher wear rates. This is also recommended for processing larger parts.

A smaller media can hold more water and compound resulting in less part-on-part damage. Also, a smaller media has a gentler impact on part, which results in longer processing times, better finishes and less media wear.

Generally, media size has to be of a different size to the part to allow complete separation at the end of the finishing process. If media is larger than parts, then an inverse separation system can be used. For ferrous components, magnetic separation is also available.



Visit our [YouTube Channel](#) to learn how to choose the finishing consumables for your process.





3. Shape

When choosing the shape of the media it is important to consider the geometry of the part - hence any lodgement of media can be avoided and the part finish will be consistent.

A flat sided media, such as triangles, tri-stars, wedges and the end side of cones, can generate longer surface contact time on edges for deburring and radiusing. However, round shaped media, such as balls, cylinders and cones generate a single point contact concentrating energy in one small point, therefore producing more work in that area.

For components which have corners, holes and slots both Tri-Star media and wedge media are recommended, minimising the possibility of media lodgement.

For surface improvement of hard to reach areas, an ellipse or cylinder shape can be considered.



4. Hardness

To avoid damaging the component, it is important to consider the part material and the hardness of the media. Ceramics are harder than plastic; hence it may cause damage to soft materials.



Selecting Compounds

Compounds are integral to the success of a process. These have many functions such as suspending the dirt, oils and media residues and flushing them from the system, as well as keeping the components and media clean, which brings stability to the process. Other advantages include corrosion inhibition, brightening of different materials, and removing scale post-heat treatment. As the compound acts as a lubricant, it extends the media life.

When choosing a compound there are 3 considerations:

- 1. Process requirements:** Such as parts that need a compound with corrosion inhibitor, flat parts that can stick to each other in process will require a separating compound; or removal of heavy machine marks and burrs can be accelerated using an ActOn powder compound.
- 2. Finish requirement:** From removing heat treatment, descaling, cleaning to brightening, polishing, burnishing and more.
- 3. Component material:** ActOn has special formulated compounds for both ferrous and non-ferrous parts.



Ceramic Media

Our ceramic media comes in a variety of abrasive grades, starting from low abrasive to super finishing. This type of media is suitable for various deburring, radiusing and polishing processes, and is specially formulated to go hand-in-hand with ActOn's compounds.

ActOn ceramic media has a high strength and long wear-ability, and it is recommended to process parts manufactured out of harder materials.

How to order with ActOn:

- 1 Choose grade
Example: CC1
- 2 Choose shape
Example: Angle Cut Triangle
- 3 Choose measurement
Example: 6x6

For further dimensions and special types of media specific for your application, please contact our sales representatives.

The media grade is the product name. Based on the grinding performance and surface finish required, the appropriate grade must be chosen.

Request your **Free Trial** today!

Media Grade	Grinding Performance	Surface Finish	Triangle		Cylinder		W Wedge	S Star	TR Tristar	ACTR Angle Cut Tristar	E Ellipse	ACE Angle Cut Ellipse	AR Arrow	P Pyramid	C Cone	R Rhombus	B Ball	
			ACT Angle Cut	SCT Straight Cut	ACC Angle Cut	SCC Straight Cut												a x b
PHD			3x8, 4x4 4x10, 5x5 5x10, 6x10 8x12, 9x9 10x15, 15x15	6x6 10x10 15x15	3x10 6x13 10x15 13x25	3x10 6x13 10x15 13x25	8x8				8x3x9 10x5x10 15x4x15 15x6x15 20x8x20	15x4x15 15x6x15	10x10					3 6 10
P			3x8, 4x4 4x10, 5x5 5x10, 6x10 8x12, 9x9 10x15, 15x15	6x6 10x10 15x15	3x10 6x13 10x15 13x25	3x10 6x13 10x15 13x25	8x8				8x3x9 10x5x10 15x4x15 15x6x15 20x8x20	15x4x15 15x6x15	10x10					3 6 10
RP1			4x10, 6x6 6x10, 8x8 10x10, 10x15 15x18, 13x13 16x16, 19x19 21x21, 25x25	6x6 10x10 13x13 16x16 19x19 25x25	3x10, 6x10 6x13, 7x15 8x8, 8x20 10x15, 10x20 13x25, 15x25 18x30	7x13 8x8 10x19	10x10 10x20 25x20 45x15	4x4, 6x6 10x10, 12x12 15x15, 20x20 25x25, 30x30	4x8, 6x6 6x10, 10x10 10x12, 10x15 12x12, 12x15 15x10, 15x15 15x20, 15x25 20x10, 20x20 20x25, 25x15 25x25, 25x30 30x12, 30x15 30x30	8x3x8, 10x5x10 10x5x15, 12x5x12 12x5x15, 14x5x14 15x7x15, 15x7x20 15x7x25, 16x8x16 16x8x20, 16x8x25 20x9x20, 20x9x25 25x10x20, 25x10x25 30x12x30, 30x12x35	8x3x8, 8x3x10 10x5x10, 12x5x12 15x7x15, 16x8x15 20x9x20, 20x9x25 25x10x20, 25x10x25 30x10x30, 30x10x35	10x10, 12x12 15x10, 18x18 20x12	38x40	15, 20, 30, 40			4 5 6 7 8 10 12	
ST1			10x10 15x15 20x20 25x25 30x30	7x7, 12x12 15x15, 20x20 25x25, 30x30 32x32, 34x34 40x40, 50x50	10x15, 10x20 15x2, 15x25 20x20, 20x25 20x30, 25x25	10x15, 10x20 15x20, 15x25 20x20, 20x25 20x30, 25x25					15x7x15 20x9x20 25x10x25	15x7x15 20x9x20 25x10x25			15, 20, 30, 40			
CFB			4x10, 6x6 6x10, 8x8 10x10, 10x15 15x18, 13x13 16x16, 19x19 21x21, 25x25	6x6 10x10 13x13 16x16 19x19 25x25	3x10, 6x10 6x13, 7x15 8x8, 8x20 10x15, 10x20 13x25, 15x25 18x30, 20x40	7x13 8x8 10x19					15x15x7							
CC1			4x10 6x12 10x20 13x26 16x32	5x5, 6x6 10x10, 13x13 16x16, 19x19 25x25, 32x32	3x10, 6x10 6x13, 10x15 10x20, 13x25 15x25, 18x30 20x40	3x10, 6x10 6x13, 10x15 10x20, 13x25 15x25, 18x30 20x40	15x15 15x18	10x10 20x10 20x20 30x30	6x6, 10x10 10x12, 20x8 20x10, 20x20	4x4, 6x6 6x10, 10x12 15x06, 15x18 20x20, 25x25 30x12	10x5x10, 13x5x13 15x5x15, 16x7x16 20x8x20, 25x10x25	15x4x15, 15x6x15 20x8x15, 25x10x25 25x13x25	10x5, 10x10 14x14, 15x10 15x15, 20x20 25x25	15x16, 22x25 25x27, 30x34 35x39	15, 19, 20, 30, 35, 40, 45, 60	35x18x25 50x30x30	6	
CC4			6x6, 8x8 10x10, 10x15 13x13, 16x16 19x19, 21x21 25x25, 32x32 33x33	6x6, 10x10 13x13, 16x16 19x19, 25x25 30x30, 32x32	3x10, 6x10 6x13, 7x15 8x8, 8x20 10x15, 10x20 13x25, 15x25 18x30, 20x40	6x7 7x13 8x8 10x19	10x12	35x17 45x23	4x4 10x10 20x20	4x4 4x10 6x6 10x12 15x18	14x5x14	20x8x20	14x14	25x25 35x35				5.5 8
CC8			6x6, 6x10 8x8, 10x10 10x15, 15x18 13x13, 16x16 19x19, 21x21 25x25, 32x32 33x33	6x6, 10x10 13x13, 16x16 19x19, 25x25 30x30, 32x32	3x10, 6x10 6x13, 7x15 8x8, 8x20 10x15, 10x20 13x25, 15x25 18x30, 20x40	6x7 7x13 8x8 10x19	10x12 15x15 20x20	45x16	10x10	10x12 15x18 15x6 20x20 30x10	14x5x14 15x7x15	25x13x25	10x10 15x10 15x15 20x20			50x40x40		
SFB			4x10, 6x6 6x10, 8x8 10x10, 10x15 15x18, 13x13 16x16, 19x19 21x21, 25x25 32x32, 33x33	6x6, 10x10 13x13, 16x16 19x19, 25x25 30x30, 32x32	3x10, 6x10 6x13, 7x15 8x8, 8x20 10x15, 10x20 13x25, 15x25 18x30, 20x40	7x13 8x8 10x19	10x12 15x15 20x20	45x16	10x10	10x12 15x18 15x6 20x20 30x10	14x5x14 15x7x15	25x13x25	10x10 15x10 15x15 20x20			50x40x40		
SFC			4x10, 6x6 6x10, 8x8 10x10, 10x15 15x18, 13x13 16x16, 19x19 21x21, 25x25 32x32, 33x33	6x6, 10x10 13x13, 16x16 19x19, 25x25 30x30, 32x32	3x10, 6x10 6x13, 7x15 8x8, 8x20 10x15, 10x20 13x25, 15x25 18x30, 20x40	7x13 8x8 10x19	10x12 15x15 20x20	45x16	10x10	10x12 15x18 15x6 20x20 30x10	14x5x14 15x7x15	25x13x25	10x10 15x10 15x15 20x20			50x40x40		

For further dimensions and special types of media specific for your application, please contact our sales representatives.

Plastic Media

ActOn plastic media is manufactured using the same high standards as the ceramic media. Even though this media does not cut as much as the ceramic one, plastic media provides a smoother finish and is highly recommended to process parts manufactured out of softer materials.

Plastic media does not chip due to the materials used in manufacturing. Furthermore, this media can be used for a long time even if it wears down, as it will maintain its shape.

How to order with ActOn:

- 1 Choose grade
Example: BR
- 2 Choose shape
Example: Cone
- 3 Choose measurement
Example: 10X10

Contact us to request your Quotation today!

Media Grade	Grinding Performance	 C Cones	 Pa Paracones	 P Pyramid	 T Tetra	 Tr Tristar	 W Wedge	 O Octocone	 B Button	 ACT Angle Cut Triangle
		a	a x b	a	a	a x b	a x b x c	a x b x c	a x b	a x b
YL		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
P2F		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
PMD		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
BL		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
P1K		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
P3W		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
PSG		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
PDV		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
PSE		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
P7M		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
BR		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
P62		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
PSS		10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25
PTX	10, 12, 14 16, 20, 25 30, 40, 50 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 60 x 60, 70 x 70	5.5 6.5	10, 12, 14 16, 20, 30 40, 50, 60, 70	20 x 20, 30 x 30 40 x 40, 50 x 50 70 x 70	20 x 12 x 12	65 x 65 x 35	14 x 5	40 x 25	

For further dimensions and special types of media specific for your application, please contact our sales representatives.

Agro & Pre-treated Media

ActOn agro and pre-treated media is manufactured out of corn cob or walnut shell and can be used for drying, polishing and cleaning. All of our agro and pre-treated medias are bovine free.

To collect the fine dust resulting from using the maizorb in the drying process, ActOn recommends the usage of a Dust Extractor for Maize Application.

Media Type		Material Specification	Media Size	Approx. Grain Size in mm
Maizorb		The maizorb grains have high abrasion resistance, good moisture absorption and low specific gravity.	Maize 4	4.50 - 8.00
		This agro product is best suited for drying, cleaning and polishing components.	Maize 6 Maize 8 Maize 10 Maize 12 Maize 16 Maize 20 Maize 30 Maize 80 Maize 200	3.50 - 6.50 2.50 - 4.00 1.60 - 2.50 1.50 - 2.00 1.00 - 1.50 0.75 - 1.00 0.25 - 0.75 0.20 - 0.55 0 - 0.20
Pre-treated Maizorb		The pre-treated maizorb has been developed to produce a bright mirror finish. This can be used both in vibratory and high energy machines.	Pre-treated Maize 4	4.50 - 8.00
			Pre-treated Maize 6 Pre-treated Maize 8 Pre-treated Maize 10 Pre-treated Maize 12 Pre-treated Maize 16 Pre-treated Maize 20 Pre-treated Maize 30 Pre-treated Maize 80 Pre-treated Maize 200	3.50 - 6.50 2.50 - 4.00 1.60 - 2.50 1.50 - 2.00 1.00 - 1.50 0.75 - 1.00 0.25 - 0.75 0.20 - 0.55 0 - 0.20
Walnut Shell		Walnut shells are hard and fibrous, and are known as 'soft abrasive'. Being extremely durable, walnut shells are used for the cleaning and polishing of heat-treated components, jewellery, surgical components, watches, etc.	Walnut Shell 1/12	2.36 - 1.00
			Walnut Shell 2/12 Walnut Shell 3/16 Walnut Shell 4/20 Walnut Shell 5/30	2.00 - 1.00 1.40 - 0.71 1.00 - 0.60 0.60 - 0.30
Pre-treated Walnut Shell		The pre-treated walnut shell imparts high lustre on components. It has been proven that on certain materials, pre-treated walnut produces a much brighter finish than pre-treated maizorb.	Pre-treated Walnut Shell 1/12	2.36 - 1.00
			Pre-treated Walnut Shell 2/12 Pre-treated Walnut Shell 3/16 Pre-treated Walnut Shell 4/20 Pre-treated Walnut Shell 5/30	2.00 - 1.00 1.40 - 0.71 1.00 - 0.60 0.60 - 0.30

For further dimensions and special types of media specific for your application, please contact our sales representatives.



Special Media

Our R&D department is continuously working closely with our clients to develop a range of Special Medias suitable for particular finishing requirements.

Special Plastic Media

Our special plastic media has been developed to finish parts manufactured out of non-ferrous materials, semi-precious and precious alloy and also stainless steel. Some of the applications include grinding and polishing. ActOn offers different types of special plastic media:

- SPM4 (particularly good for achieving a low surface finish on medical implants manufactured using materials such as Cobalt Chrome and Stainless Steel).
- SPM7, SPM6 and SPM5 (recommended for removing machining lines on Cobalt Chrome and Stainless Steel parts, SPM7 being the most aggressive plastic media option).



Wood Media

Wood media is generally used alongside with ActOn compounds to achieve a smooth finish, a polished finish, dry tumbling or for light deburring. ActOn offers the wooden media in different sizes and shapes:

- Cubes
- Diamonds
- Pegs

This media can be used in different applications on part materials such as plastic, nylon, ceramics, wood and metals.

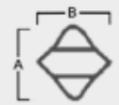


Stainless Steel

Stainless Steel media is mainly used for burnishing, cleaning and light deburring. This media wears very slowly with a life of up to 10,000 hours. For a burnishing finish, it is recommended that the media is used with the burnishing compound in the B Series machine. Due to the weight of the media, the B series provides added reinforcement. ActOn Stainless Steel Media is manufactured in different shapes and sizes:

- Ballcones
- Balls
- Diagonals
- Eclipses
- Pins



Ballcones 					Balls 	
Sizes Inches	Measure A Inches	Measure B Inches	Measure A Millimeters	Measure B Millimeters	Inches	Millimeters
1/8	0.125	0.170	3.17	4.32	1/8	3.18
5/32	0.215	0.270	5.47	6.86	5/32	3.97
3/16	0.270	0.300	6.86	7.63	3/16	4.76
1/4	0.320	0.400	8.13	10.15	1/4	6.35
5/16	0.375	0.465	9.54	11.81	5/16	7.94
					1/2	12.7

Diagonals 				Eclipses	
Diameter Inches	Length Inches	Diameter Millimeters	Length Millimeters	Inches	Millimeters
1/8	1/8	3.18	3.18	1/8	3.18
5/32	5/32	3.97	3.97	3/16	4.76
3/16	3/16	4.76	4.76		
1/4	1/4	6.35	6.35		

Pins 			
Diameter Inches	Length Inches	Diameter Millimeters	Length Millimeters
1/8	3/8	3.18	9.53

Notes: For further dimensions and special types of media specific for your application, please contact our sales representatives.

Shot Blasting and Peening Media

ActOn offers a wide range of Abrasive Consumables for shot blasting and peening processes. Selecting the right blasting media is essential and depends upon the condition of the material before blasting and the finish required after blasting.

Contact us to request your Quotation today!

For further dimensions and special types of media specific for your application, please contact our sales representatives.

	Material Name	Metallic Blasting Media			
		Steel Shot	Steel Grit	Stainless Steel Shot	Stainless Steel Grit
Abrasive Media Details	Description	Made out of durable carbon steel, it is great for cleaning, stripping, smoothing, polishing and improving a metal surface. Also, recommended for deburring or de-flashing castings and cleaning moulds.	An aggressive blasting media, used for removing any contamination from steel and foundry metals & to obtain an etched surface finish on components manufactured out of hard metals.	Made out of chrome-nickel stainless steel shot this abrasive media is used mainly for the treatment of non-ferrous metals and stainless steel parts. Approved by aerospace industry.	Made out of high chromium level of 30%, it is used as an alternative to corundum. This is a more stable operating mix and reduced abrasive consumption. Perfect for aerospace castings and wheel repair. Approved by aerospace industry.
Abrasive Media Picture					
Application Guide	Cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Satin Finish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Descaling / Derusting / Stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Surface Improvement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Etching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Roughening the Surface	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Peening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Matt Finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Edge Rounding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Prepare Surface Prior to Plating, Coating, Painting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Deburring / De-flashing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Smooth Finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Bright Finish / Polishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Decorative Finishing / Glass Frosting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ferrous Material	Carbon Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Hardened Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Iron	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-ferrous Material	Aluminium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Ceramic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Titanium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Stone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Glass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Shot Blasting and Peening Media

For further dimensions and special types of media specific for your application, please contact our sales representatives.

Contact us to request your Quotation today!

Abrasive Media Details	Material Name	Metallic Blasting Media	Silicon Carbides		Bauxite
	Description	Chilled Iron Grit	Cut Wire Shot		
Abrasive Media Picture		Recommended for quick cleaning, etching and roughening up hard surfaces. This is a hard abrasive media, suitable for blasting rooms.	Available in stainless steel, aluminium, copper, zinc and nickel version, this can be used for peening, cleaning & vibratory finishing.	Applications include cleaning, smoothing, satin finishing, removal of coatings, rust and oxides and deburring. This is a tough media that can be used both in the air and wet blasting process	A high-grade calcined media which is highly durable. Often used in road maintenance, furnace linings and floors cleaning. It is used on surfaces that require a high degree of non-slip capacity.
					
Application Guide	Cleaning	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
	Satin Finish				
	Descaling / Derusting / Stripping			<input type="checkbox"/>	<input type="checkbox"/>
	Surface Improvement				<input type="checkbox"/>
	Etching	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Roughening the Surface	<input type="checkbox"/>			
	Peening		<input type="checkbox"/>		<input type="checkbox"/>
	Grinding				<input type="checkbox"/>
	Matt Finishing				
	Edge Rounding			<input type="checkbox"/>	
	Prepare Surface Prior to Plating, Coating, Painting	<input type="checkbox"/>			
	Deburring / De-flashing			<input type="checkbox"/>	
	Smooth Finishing				
	Bright Finish / Polishing				<input type="checkbox"/>
	Decorative Finishing / Glass Frosting				
Ferrous Material	Carbon Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Hardened Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Iron	<input type="checkbox"/>	<input type="checkbox"/>		
	Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-ferrous Material	Aluminium		<input type="checkbox"/>		<input type="checkbox"/>
	Brass		<input type="checkbox"/>		
	Ceramic		<input type="checkbox"/>	<input type="checkbox"/>	
	Copper		<input type="checkbox"/>		
	Plastic				<input type="checkbox"/>
	Titanium		<input type="checkbox"/>		
	Stone			<input type="checkbox"/>	<input type="checkbox"/>
	Glass			<input type="checkbox"/>	
Wood				<input type="checkbox"/>	

		Garnet	Polycarbonat Media	Nylon Media	Walnut Shell
Abrasive Media Details	Description	A natural mineral, offeres a cleaner application, with improved cutting performance, compatibility to non-ferrous metals and low tendency to embedment. Used extensively as a waterjet cutting media, this media is tested in accordance with ISO1126-10 and ISO1127-6 & 7 and is compliant with Rolls Royce CSS211 specification.	This is a specially formulated polycarbonate thermoplastic media. This media is extruded and pelletised into a cylinder shape in a range of sizes with exceptionally tight dimensional tolerances. Approved by aerospace industry.	A specially formulated polycarbonate thermoplastic media , with low dust levels. Widely used in aerospace, mould and tools and electronic industries.	Great for obtaining a clean, smooth, bright or satin finish. This media is a cost effective solution as it can be recycled. Glass beads are mainly used in the shot blasting cabinets
	Abrasive Media Picture				
Application Guide	Cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Satin Finish				
	Descaling / Derusting / Stripping	<input type="checkbox"/>	<input type="checkbox"/>		
	Surface Improvement	<input type="checkbox"/>		<input type="checkbox"/>	
	Etching				
	Roughening the Surface				
	Peening	<input type="checkbox"/>	<input type="checkbox"/>		
	Grinding				
	Matt Finishing	<input type="checkbox"/>	<input type="checkbox"/>		
	Edge Rounding				
	Prepare Surface Prior to Plainting, Coating, Painting	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
	Deburring / De-flashing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Smooth Finishing				
	Bright Finish / Polishing				
	Decorative Finishing / Glass Frosting				
Ferrous Material	Carbon Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Hardened Steel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Iron		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Stainless Steel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-ferrous Material	Aluminium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brass		<input type="checkbox"/>	<input type="checkbox"/>	
	Ceramic				
	Copper		<input type="checkbox"/>	<input type="checkbox"/>	
	Plastic		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Titanium		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Stone				
	Glass				
	Wood	<input type="checkbox"/>			



	Material Name	Glass Beads	Crushed Glass
Abrasive Media Details	Description	Great for obtaining a clean, smooth, bright or satin finish. This media is a cost effective solution as it can be recycled. Glass beads are mainly used in the shot blasting cabinets	A high-grade soda lime glass which has been crushed and graded into glass grit. Widely used in mold and tooling, aerospace, construction industries and road maintenance.
	Abrasive Media Picture		
Application Guide	Cleaning	<input type="checkbox"/>	<input type="checkbox"/>
	Satin Finish	<input type="checkbox"/>	<input type="checkbox"/>
	Descaling / Derusting / Stripping	<input type="checkbox"/>	<input type="checkbox"/>
	Surface Improvement		
	Etching		
	Surface Roughening		
	Peening	<input type="checkbox"/>	<input type="checkbox"/>
	Grinding		
	Matt Finishing		<input type="checkbox"/>
	Edge Rounding		
	Prepare Surface Prior to Plainting, Coating, Painting		
	Deburring / De-flashing		<input type="checkbox"/>
	Smooth Finishing	<input type="checkbox"/>	<input type="checkbox"/>
	Bright Finish / Polishing	<input type="checkbox"/>	
	Decorative Finishing / Glass Frosting	<input type="checkbox"/>	<input type="checkbox"/>
Ferrous Material	Carbon Steel		<input type="checkbox"/>
	Hardened Steel		<input type="checkbox"/>
	Iron		<input type="checkbox"/>
	Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>
Non-ferrous Material	Aluminium	<input type="checkbox"/>	<input type="checkbox"/>
	Brass	<input type="checkbox"/>	<input type="checkbox"/>
	Ceramic		
	Copper	<input type="checkbox"/>	<input type="checkbox"/>
	Plastic		<input type="checkbox"/>
	Titanium		
	Stone		
	Glass		
Wood		<input type="checkbox"/>	

	Material Name	Brown, Pink and White Aluminium Oxide		Pink Aluminium Oxide	Plastic Blast Media	Ceramic Beads
		Brown Aluminium Oxide	White Aluminium Oxide			
Abrasive Media Details	Description	A fast cutting and tough media, widely used in the aerospace and automotive industry	Ideal for processes where no contamination is allowed, being used for finishing materials such as titanium, stainless steel, crystal glassware	Tougher than the white one being used both in wet and dry blasting process. Applications include removal of scale, paint, rust, hard deposits, cleaning, matte finishing, decorative finishing and glass frosting	For paint and coatings stripping from components made out of soft metals, plastic and composites. This media is widely used in aerospace & automotive industry for blasting applications.	Applications include cleaning, smoothing, satin finishing, removal of coatings, rust and oxides and deburring. This is a tough media that can be used both in the air and wet blasting process
Abrasive Media Picture						
Application Guide	Cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Satin Finish					<input type="checkbox"/>
	Descaling / Derusting / Stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Surface Improvement					
	Etching	<input type="checkbox"/>	<input type="checkbox"/>			
	Roughening the Surface	<input type="checkbox"/>				
	Peening					<input type="checkbox"/>
	Grinding					
	Matt Finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	Edge Rounding					
	Prepare Surface Prior to Plainting, Coating, Painting	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
	Deburring / De-flashing	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
	Smooth Finishing					<input type="checkbox"/>
	Bright Finish / Polishing					
	Decorative Finishing / Glass Frosting			<input type="checkbox"/>		
Ferrous Material	Carbon Steel	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Hardened Steel	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Iron	<input type="checkbox"/>		<input type="checkbox"/>		
	Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-ferrous Material	Aluminium		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Brass				<input type="checkbox"/>	<input type="checkbox"/>
	Ceramic				<input type="checkbox"/>	
	Copper				<input type="checkbox"/>	<input type="checkbox"/>
	Plastic				<input type="checkbox"/>	
	Titanium		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Stone	<input type="checkbox"/>		<input type="checkbox"/>		
Glass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Liquid Compounds

ActOn compounds are specially formulated for vibratory and high energy finishing machines. They comprise of abrasives, brighteners, lubricating agents, cushioning materials and cleaning agents.

Our R&D department has developed specially formulated, environmentally friendly and biodegradable compounds that suit customers' requirements. They are continuously focused on improving our existing compounds and creating new ones.

Due to varying properties of metals and alloys, one chemical formulation is not enough for all engineering materials. Therefore, it is prudent to take expert advice and recommendations when selecting suitable compounds for specific requirements.

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ActOn liquid compound details	Material Name	LQ18M	LQ18	LQ9	LQ60	LQ4	LQ14	LQ15D	LQ17	LQ19	LQ30	LQ191
	Description	Light de-scaling, removal of rust and discolouration due to heat treatment processes. Removes metal oxides to produce a bright polish, retaining base metal colour.	Acidic compound for removal of light heat treatment, scale, brightening and polishing suitable for ferrous and non-ferrous metals. Widely used in the aerospace sector.	Specially formulated for polishing and brightening of ferrous and non-ferrous metals.	A low-cost, multi-purpose compound for all metals. Grinding, deburring, polishing on all metals. Used for obtaining bright colour throughout the process. Can be used with all types of media and for self tumbling operations.	Low foaming compound suitable for cleaning, brightening and polishing of all metals.	General cleaner with good polishing properties for all metals.	Specially formulated for die-cast products. Excellent cleaning and emulsifying properties.	Multi-purpose liquid for cleaning ferrous metals. Contains strong corrosion inhibitor. Mainly use on ferrous metal.	Multi-purpose compound for all metals.	Concentrated compound for all metals. Good cleaner and polisher with corrosion inhibitor.	Cleaning and polishing of ferrous metals with strong corrosion inhibitor. Low foaming compound designed for ferrous metals.
Application guide and characteristics	PH	1-2	2.5-3	<4	10-11	8-8.5	8-8.5	8-8.5	8-8.5	8-8.5	8-8.5	8-8.5
	Colour	Pale Gold	White Cloudy	Cream	Pale Yellow	Pale Blue	Golden	Golden Yellow	Pale Green	Shades of Blue	Golden	Pale Gold
	Brightening/ Polishing	OOO	OO	OOO	OO	OO	OO	OO	OO	O	OOO	OO
	Ball Burnishing	OO	OO	OO	O	OO	O	OO	OO	OO	OOO	OO
	Cleaning					OO	OO	OOO	OOO	OO	OO	OOO
	Corrosion Inhibitor					OO	O	O		OO	OO	OOO
	Degreasing/ De-oiling							OO				
	Descaling / Derusting / Light Heat Treatment	OO	OOO									
	Foam	O		OOO	O	O	O	O	O	O	O	OO
	Pickling	OO	OOO	OOO								
Suitable for Recirculation	Recirculation of compounds can be adapted to suit specific processes and applications.											
Ferrous Material	Carbon Steel	OOO	OOO				OOO		OOO		OOO	OOO
	Hardened Steel	OOO	OOO				OOO		OOO		OOO	OOO
	Iron	OOO	OOO				OOO		OOO		OOO	OOO
	Stainless Steel	OOO	OOO				OOO		OOO		OOO	OOO
Non-ferrous Material	Aluminium							OOO		OOO		
	Brass							OOO		OOO		
	Ceramic							OO				
	Copper	OOO	OOO					OOO		OOO		
	Magnesium							OO				
	Plastic							OO				
	Titanium	OOO	OOO					OO				
Zinc							OOO		OOO			
All Metals	All Metals	OO	OO	OOO	OOO	OO	O			OO	OO	

Liquid Compounds

- 000 Excellent
- 00 Good
- 0 Average

	Material Name	LQ16	LQ40	LQ6		LQ20	LQ110	LQ191S	LQ30/F2	LQ11	LQ111	LQ111S	F2C	LQ10
	ActOn liquid compound details	Description	Concentrated cleaner and polisher for non-ferrous metals.	Excellent cleaning properties on non-ferrous metals. Keeps media and parts free of dirt and metal fines. Higher percentage delivers a brighter finish.	A very low foaming compound for zinc alloys and copper alloys. For fine cutting semi-bright finishing, use plastic media. Contains cleaning agent suitable for zinc alloys to give a smooth finish. Often used prior to electro-plating.		Powerful degreaser and cleaner with good inhibitor qualities designed for ferrous metals.	Degreaser and cleaner suitable for heavy machining oils and lubricants. Designed for ferrous metals. Saponify and emulsify oils, greases. Inhibits corrosion. Low foaming properties.	Cleaning and polishing of ferrous metals with strong corrosion inhibitor. Low foaming compound designed for ferrous metals	Good cleaner and polisher with corrosion inhibitor.	Powerful degreaser and cleaner with good inhibitor qualities designed for ferrous metals.	Powerful degreaser and cleaner suitable for heavy machining oils and lubricants. Designed for ferrous metals. Saponify and emulsify oils, greases. Inhibits corrosion. Low foaming properties.	Cleaning, degreasing of ferrous metals. Saponify and emulsify oils and greases. Used in various industrial washing and spraying machines for degreasing and cleaning.	Powerful degreaser and cleaner with excellent inhibitor qualities. Designed for ferrous metals.
	PH	8.5-9	8.5-9	9-10		10-11	9-9.5	9	9-10	10-11	10-11	10-11	10-11	11-12
	Colour	Pale Yellow	Golden	Golden		Colourless	Colourless	Pale Gold	Golden	Colourless	Colourless/ Golden	Colourless/ Golden	Colourless	Colourless
Application guide and characteristics	Brightening/ Polishing	000	00	00				000	000					00
	Ball Burnishing	000	00						00					
	Cleaning	00	000	00		00	00	000	00	000	000	000	000	000
	Corrosion Inhibitor					00	00	000	000	00	00	000	000	
	Degreasing/ De-oiling					00	00		00	000	000	000	000	00
	Descaling / Derusting / Light Heat Treatment													
	Foam	0	0	0		0	0	0	0	0	0	0	0	0
	Pickling													
	Suitable for Recirculation	Recirculation of compounds can be adapted to suit specific processes and applications.												
Ferrous Material	Carbon Steel		00			00	00	000	000	000	000	000	000	
	Hardened Steel		00			00	00	000	000	000	000	000	000	
	Iron		00			00	00	000	000	000	00	000	000	
	Stainless Steel		00			00	00	000	000	000	000	000	000	
Non-ferrous Material	Aluminium	000	00											000
	Brass	000	00											000
	Ceramic	000	00											
	Copper	000	000	000										000
	Magnesium	000	00											
	Plastic	000	00											
	Titanium	000	00											
Zinc	000	000	000											000
All Metals	All Metals	00		0								0		

Powder Compounds

As well as a comprehensive range of liquid compounds, ActOn Finishing offers a full range of Powders & Pastes. These are used for grinding, cleaning and polishing of ferrous and non-ferrous materials for vibratory and high energy finishing machines.

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	Category	Abrasive Compounds			
	Material Name	A0	A1	A2	A3
ActOn powder compound details	Description	An aggressive, coarse, concentrated, abrasive compound, used on harder metals for grinding, radiusing and the removal of heavy machine marks and burrs. Used with an abrasive media. It leaves the surface of components with a shot blast appearance.	It is a fast cutting compound for heavy deburring and combined with cleaning agents and is mainly used for ferrous components, brass cuttings and pressings. It leaves the surface with a matte finish.	It is a medium abrasive compound and is combined with cleaning agents.	It is a light deburring compound combined with cleaning agents for fine surface finishing of all materials, but mainly used on soft metals like zinc, brass or aluminium. It can also be used to bring back the surface on ceramic media which is contaminated.
	PH	9-10	11-12	11-12	10-11
	Colour	Dark Brown	White/Brown	White/Light Brown	White
	Brightening/Polishing	0	0	0	0
Application guide and characteristics	Ball Burnishing				
	Cleaning	000	000	000	000
	Corrosion Inhibitor	00	00	00	
	Degreasing/De-oiling				
	Descaling /Derusting / Light Heat Treatment	000	000	00	0
	Foam	0	0	0	0
Ferrous Material	Carbon Steel	000	000	000	
	Hardened Steel	000	000	000	
	Iron	000	000	000	
	Stainless Steel	000	000	000	
Non-ferrous Material	Aluminium				000
	Brass		000		000
	Ceramic				
	Copper				
	Magnesium				
	Plastic				
	Titanium				
	Zinc				000
All Metals	All Metals			00	00

Powder Compounds

As well as a comprehensive range of liquid compounds, ActOn Finishing offers a full range of Powders & Pastes. These are used for grinding, cleaning and polishing of ferrous and non-ferrous materials for vibratory and high energy finishing machines.

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	Category	Abrasive Compounds		Polishing Compounds		
	Material Name	A7	35F	P6	P51	P71
ActOn powder compound details	Description	It is a light grinding compound for cutting down and polishing and contains an extremely fine abrasive, which during the process breaks down into a slurry. This assists the polishing ingredients to impart a polished surface.	This is used for cutting and polishing of non-ferrous metals and contains a soft abrasive with polishing agents.	It is used for polishing copper and its alloys with non abrasive media. A silky foam lather is built which enhances the polishing process.	A polishing compound for aluminium with extra brightening and polishing agents giving superb results. Mainly used with steel media or plastic media to give a semi-polished matte finish.	It produce a clean, bright luster and keeps the metal in solution, allowing the process to continue for long periods. This is suitable for Zinc and Zinc Alloys. Mainly used with non-abrasive media.
	PH	9-10	5-6	9-10	9-10	9-10
	Colour	Dark Brown	Off White	White	White	White
	Brightening/Polishing	OO	OO	OOO	OOO	OOO
Application guide and characteristics	Ball Burnishing			OOO	OOO	
	Cleaning	O		OOO	OOO	OOO
	Corrosion Inhibitor	O				
	Degreasing/ De-oiling					
	Descaling /Derusting / Light Heat Treatment					O
	Foam	O	O	OO	O	O
	Carbon Steel	OOO				
Ferrous Material	Hardened Steel	OOO				
	Iron					
	Stainless Steel					
	Aluminium		OOO		OOO	
Non-ferrous Material	Brass		OOO	OOO	OOO	
	Ceramic		OOO			
	Copper		OOO	OOO		
	Magnesium		OOO			
	Plastic		OOO			
	Titanium		OOO			
	Zinc		OOO			OOO
	All Metals	All Metals			O	O

Powder Compounds

OOO Excellent

OO Good

O Average

	Category	Cleaning and Degreasing Compounds					
	Material Name	C1	C4	C5	C6	Actoclean BT (C7)	C50
ActOn powder compound details	Description	Used to remove grease, oils and lubricating fluids, leaving metal components clean and ready for further processes.	Used for cleaning of ferrous components and can be used with all types of media.	It keeps processes free of grease and oil. Good rust inhibitor. Mainly used on ferrous components.	Cleaning compound with brightening. Used on ferrous components to give a clean, bright surface finish. It contains a strong rust inhibitor. Abrasive and polishing media can be used with C6 compound.	Used mainly on ferrous components to give a clean surface finish. It contains strong rust inhibitor.	Suitable for processing all metals. Copes with all types of oily and greasy components. Contains corrosion inhibitor and can be used with all types of media.
	PH	12-13	12-13	12-13	11-12	11-12	10-11
	Colour	White	White	White	White	White	White
	Brightening/Polishing	OO		OO	OO		
Application guide and characteristics	Ball Burnishing						
	Cleaning	OOO	OOO	OOO	OOO	OOO	OOO
	Corrosion Inhibitor			OO	OOO	OOO	OOO
	Degreasing/De-oiling	OOO		OOO		OOO	OOO
	Descaling /Derusting / Light Heat Treatment						OO
	Foam	O	OO	O	O	O	O
	Ferrous Material	Carbon Steel		OOO	OOO	OOO	OOO
	Hardened Steel		OOO	OOO	OOO	OOO	OOO
	Iron		OOO	OOO	OOO	OOO	OOO
	Stainless Steel		OOO	OOO	OOO	OOO	OOO
Non-ferrous Material	Aluminium				OOO		
	Brass				OOO		
	Ceramic						
	Copper						
	Magnesium						
	Plastic						
	Titanium						
	Zinc						
All Metals	All Metals	OOO	OOO				OO

Special Compounds

000 Excellent

00 Good

0 Average

	Material Name	Turbocut	Chemcut	Actogrind	Vibropol	ADI	Vibroshine	Actopol 108	Actopol 106	Separating Compound
ActOn Special compound details	Description	A near neutral material to give a safe process for the rapid removal of metal on ferrous components. Ideally suited for steel and hardened steels in the hand tool industries. After the Turbocut process, the surface is ultra smooth and can be plated directly, eliminating expensive hand polishing.	Removal of grinding, finishing and machine marks. Recommended for steel, hardened steel and certain stainless steels only to give rapid metal cut-down and levelling, producing super smooth surfaces, ready for polishing and electro-plating if required. Mainly used with non-abrasive media.	This is an abrasive paste that is used in Vibratory bowl machines and it is used for both ferrous and non-ferrous parts.	This is a polishing paste and can be used on all metals.	Used for descaling and rust removal of oxides, heat treatment, discolouration, welding scale, some carbon deposits, hard-water scale. Not used on zinc or magnesium.	For use in vibratory beds with crushed walnut shell media for bright polishing of small ferrous and non-ferrous items.	A fine, long lasting clean cutting abrasive for normal burr and surface finish improvement. It prevents corrosion on ferrous parts and produces a clean smooth finish on all metal parts. This is used with ceramic, natural or soft metallic media.	This is an abrasive compound for normal deburring and stock removal. It can be used with ceramic, natural or soft metallic medias, and is excellent for part-on-part processing. This produces a clean smooth finish on all metal parts.	This is used to keep flat parts from sticking to each other when wet in a process. It is used in all types of vibratory and barrel finishing machines with all metals.
	PH	6-7	1-2	6-7	8.5	<1.5	6-7	9.3	9.0	
	State	Liquid	Powder	Paste	Paste	Powder	Paste	Powder	Powder	Granules like Beads
	Colour	Clear/pale	White	Brown	White	White/Off White	White	Off White	Off White	White
Application guide and characteristics	Brightening/ Polishing			00	000		000			
	Removal of machining/ grinding lines	000	000	000				000	000	
	Cleaning	00			00			000	000	
	Corrosion Inhibitor	00						000	000	
	Degreasing/ De-oiling						000			
	Descaling / Derusting / Light Heat Treatment	00			00		000			
Ferrous Material	Foam	0	0	0	0	0	0	0	0	N/A
	Pickling									
	Carbon Steel	000	000			000				
	Hardened Steel	000	000			000				
	Iron	00	000			000				
	Stainless Steel	00	00			000				
Non-ferrous Material	Aluminium					000				
	Brass					000				
	Ceramic					000				
	Copper					000				
	Magnesium									
	Plastic					000				
	Titanium					000				
	Zinc									
All Metals	All Metals			000	000		000	000	000	000 39

Water Treatment Consumables

ActOn's effective water treatment system is a combination of equipment technology (ActOn Centrifuge System) and water cleaning products (flocculants and coagulants).

The ActOn Centrifuge system is connected to the mass finishing equipment. The effluent discharged from the finishing equipment is collected in a tank, where a strainer stops the heavy particles. The dirty water is pumped into the Centrifuge chamber which rotates at high speed to separate the impurities from the water.

For special purpose, the flocculants can be added in the water tank for better coagulation and precipitation of the contaminants in the sludge basket provided in the Centrifuge. The coagulants and flocculants are used to separate the suspended solids from water.

ActOn Coagulants

Coagulants are added into the solution to neutralise the negative charges on non-settable solids. The coagulants have an opposite charge to the suspended solids.

Once the charge is neutralised, the small suspended particles are capable of sticking together. These slightly larger particles are called pin flocs. Water surrounding the newly formed pin flocs should be clear. If not, coagulation and some of the particle's charge have not been neutralised. More coagulant chemicals may need to be added.

Over-mixing of the coagulant with the suspended solids in the water does not affect coagulation, but insufficient mixing will leave this step incomplete.

Coagulants			
Product name	AC PAC	Ferric Sulphate	AC CL520
Liquid / Powder	Liquid	Liquid	Liquid
Anionic / Cationic	Cationic	Cationic	Cationic
Application	Coagulation of metal finishing effluents – product choice dependent on chemical nature of effluent and particle size of solids		
pH	1.8-2.5	0.5-1	5.5-6.5
Recommended dosage	200-500ppm	200-500ppm	20-50ppm

Request your [Free Trial](#) today!



ActOn Flocculants

Flocculation is the formation of larger flocs using high molecular weight polymers. These products help to bridge, bind and strengthen the pin flocs formed, adding weight and increasing settling rate. Once the floc has reached its optimum size and strength, the water is ready for sedimentation.

It is important not to over-mix the flocculent with the water as once the flocs formed are torn apart, it is not possible to get them to reform without the addition of more flocculent.

Flocculants							
Product name	AF AD985	AF AD987	AF AE66	AF 209	AF 990	AF A260	AF A320
Liquid / Powder	Dewatered liquid emulsion	Dewatered liquid emulsion	Liquid emulsion	Powder	Powder	Powder	Powder
Anionic / Cationic	Low anionic	Mid anionic	Mid anionic	Very low anionic	Low anionic	Low/mid anionic	Mid anionic
Application	Flocculation of metal finishing effluents – product choice dependent on chemical nature of effluent						
pH	3.5-4.5	3.5-4.5	6-8	6-8 (1%Soln)	6-8 (1%Soln)	6-8 (1%Soln)	6-8 (1%Soln)
Recommended dosage	4-8ppm	4-8ppm	5-10ppm	3-5ppm	3-5ppm	3-5ppm	3-5ppm
Product name	AF K540	AF K560	AF K580	AF CE662	AF CE682	AF 528	
Liquid / Powder	Powder	Powder	Powder	Liquid emulsion	Liquid emulsion	Powder	
Anionic / Cationic	Mid cationic	Mid/high Cationic	High cationic	Mid/high cationic	High cationic	Anionic	
Application	Flocculation of metal finishing effluents – product choice dependent on chemical nature of effluent						
pH				4-6 (1%Soln)	4-6 (1%Soln)	6-8	
Recommended Dosage	5-10ppm	5-10ppm	5-10ppm	8-12ppm	8-12ppm	5-10ppm	

To determine the product and dosage suitable for your process, please contact our sales representatives.



we manufacture



Bowls

Each of our Bowls are simple to operate, highly efficient, and manufactured in classic designs and sizes to meet your unique applications.



Troughs

We offer Troughs in many different sizes and an infinite choice of length and width combinations, making them one of our most versatile. These are particularly useful for larger components.



Duals

The orbital Dual finisher works to both deburr and dry in one single unit. This is both an excellent and economical finishing option.



Dryers

Our unique, elliptical-shaped Vibratory bowl drying machines are compact in size, and simple to operate. The design provides the flexibility to use it as an effective 1 lap drying process or a multi lap process. We also offer centrifugal dryers, conveyorised ovens and rotary dryers.



Wheel Polisher

Suitable for achieving a highly polished finish on wheels with different sizes (up to 610 mm), the AWP188 machine has been designed to be simple to operate and to produce excellent results. The wheel polisher is great for grinding, smoothing and polishing processes.



Centrifugal Disc Finishing

Centrifugal Disc finishing machines have been designed to be reliable and easy to operate. The spinning motion of the disc machine is given by the disc situated at the bottom of an open barrel. The rotating disc makes the media, compound and parts to move in a rolling motion, resulting in effective finishing process in the shortest time.



Centrifugal High Energy

Engineered with the latest technology, the drive mechanism is designed to produce high g-forces, resulting in shorter process times. This technology can be used for both wet and dry processes.



Waste Water Treatment

During the finishing operation, the effluent can be polluted with oil, media and metal fines. Our customers trust us to help select a waste water treatment system that complies with the industry's growing regulations. Once processed, the effluent is treated in the ActOn centrifuge system before being discharged to the drain or recycled.



Wheel Blasting Systems

At ActOn we now offer a range of Wheel Blast Systems to help you achieve the surface finish you need. We can cater to all your application requirements including descaling, removal of corrosion or rust, paint stripping, de-flashing, achieving a smooth finish, shot peening, polishing and surface preparation prior to coating.



DLyte Technology

DLyte Finishing Technology is a fully automatic finishing system which enables you to deburr, grind, surface finish & mirror polish in one step. It is used for metal parts which require high performance or superior finishes, including steel and stainless-steel, cobalt chrome, titanium, nickel and other common metal alloys.



Ultrasonic Cleaning Technology

The Ultrasonic Cleaning Machine is designed to clean, descale and strip a large range of components, from a range of industries such as automotive, aerospace, energy, electronics, food, graphics, jewellery, manufacturing, marine, mould cleaning, medical, optical and more. This technology includes a Standard Series, a Laboratory Series, the Ultrasonic Machines built for the Automotive Industry and Customised Ultrasonic Systems.

Subcontract Service

On top of our state-of-the-art machinery and media, we also supply a range of support & training services. Moreover, we'll tailor our services & products to your needs, not the other way around. Our finishing service is all about you.

We suit our Finishing Technology and Subcontract Services to cover your needs. From a proved surface finishing technology we will adapt it according to your requirement. Just [contact us](#). We will do the rest.

Custom project development:



Don't just think about it.
It's now time to **ActOn** it.



CHEF, CLM, CDF, Shot Blasting & Vibratory Finishing Subcontract



Inspection Services



Installation, Training, Maintenance Services



Equipment Refurbishment & Spare Parts Service

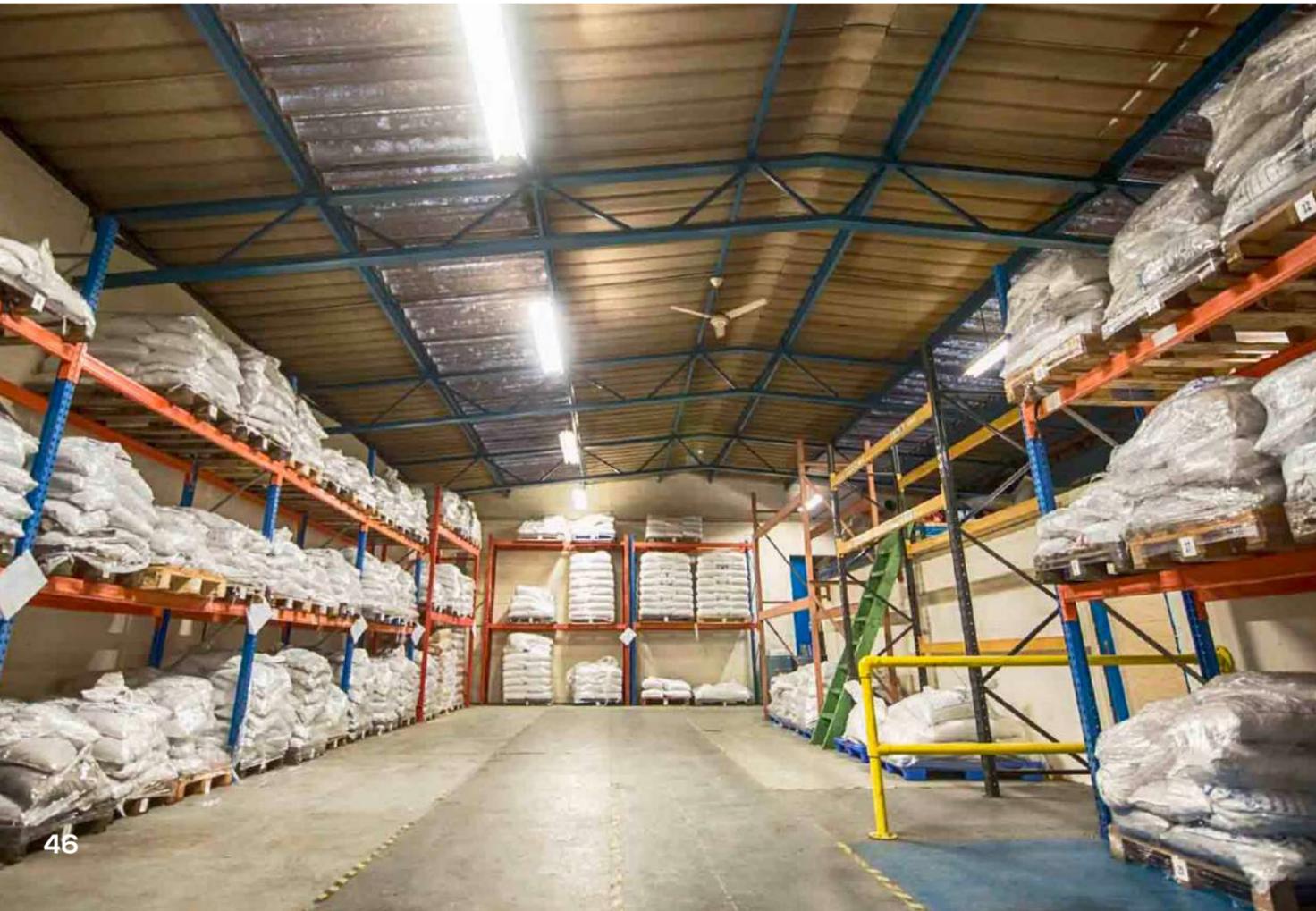
What Our Customers Say

“Professional, knowledgable, on-time, good value and friendly. You couldn’t want for more. ActOn are always the first place on our list for part finishing.”

Samuel Nottage-McNeice, MAVEN Technology

“ ActOn Finishing’s openness and willingness to conduct trials to establish the most suitable technology and process, was exactly what Ricoh required from a technical partner.”

Richard Minifie’s, Ricoh UK Product Limited



Quality You Can See

We pride ourselves on our excellence, and over the years we have successfully demonstrated an ongoing compliance with ISO quality and environmental standards. We’re also an approved supplier for many of our industries, including medical and aerospace.

For ISO, we currently hold:



“ The bitterness of poor quality remains long after the sweetness of low price is forgotten. ”

Benjamin Franklin

we redefine

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