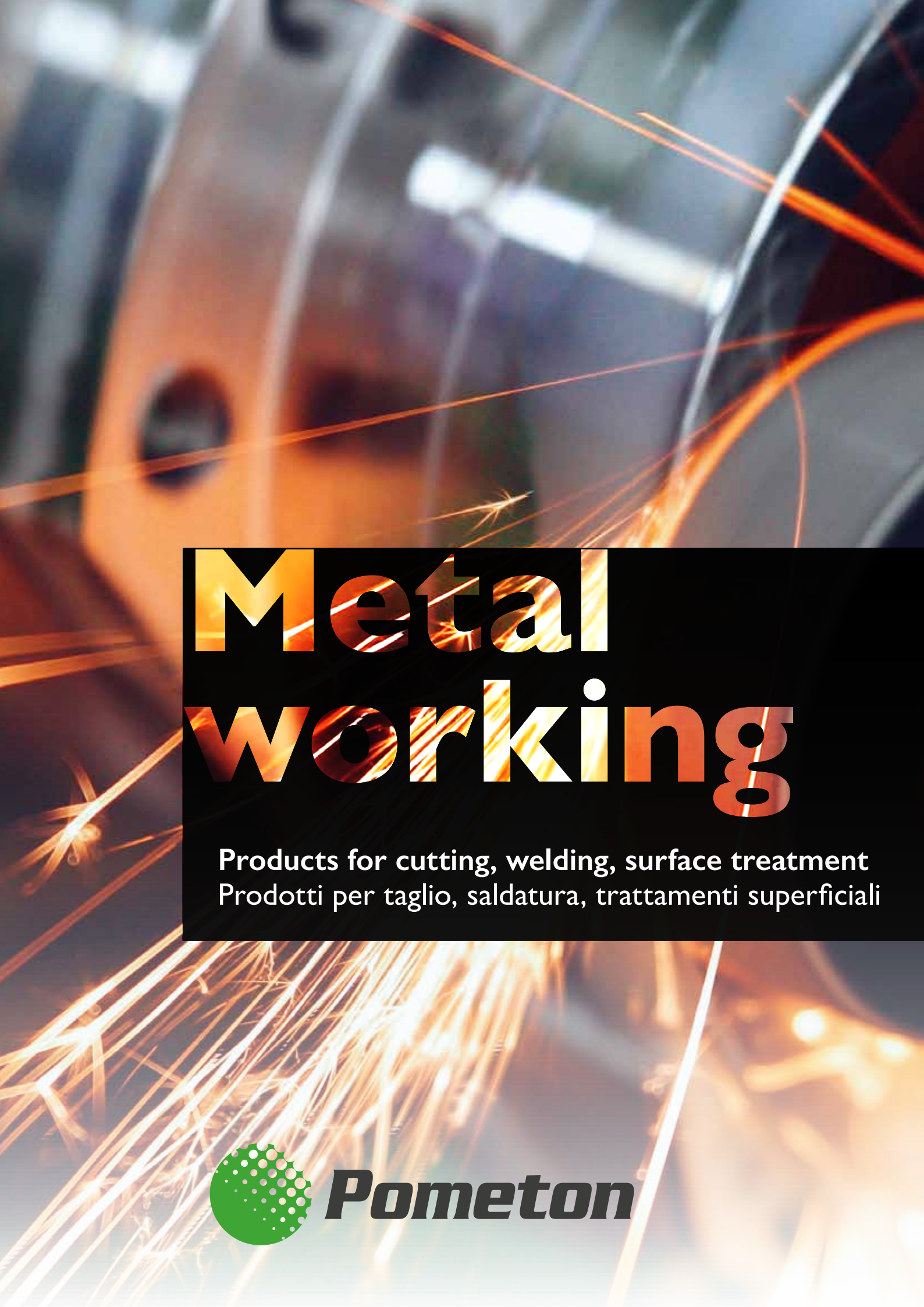


Metal working

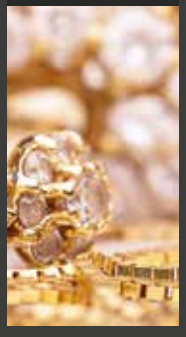
Products for cutting, welding, surface treatment
Prodotti per taglio, saldatura, trattamenti superficiali

Pometon

Pometon

Established in 1940 Pometon Spa is today the largest European producer of copper powder (both electrolytic and atomized), as well as esteemed producer of stainless steel blasting media, ferrous and non-ferrous powders.
Among pure powder, Pometon is skilful for iron, bronze, brass, tin and zinc, as well as for diffusion bondeds, press-ready iron and bronze premixes.
Pometon products are used worldwide in a variety of applications, from Sintering to Diamond tools, Friction, Chemical, Carbon brushes, Jewellery and many Metalworking uses.
Pometon's subsidiaries are in UK, Spain, Germany, India, Turkey, Korea. A 2nd production plant is in Serbia.

Having achieved high levels of product innovation and continuous improvement, with a quality management system conforming to ISO 9001: 2015, ISO 14001: 2015, BS OHSAS 18001: 2007 certifications, Pometon works with all the major automotive brands, with the best global players in the chemical industry and is expanding, acquiring new customers in the aerospace and electronics sectors.
Based next to Venice, Italy, Pometon has key strength in embracing clients' needs for special custom powders. Thanks to its cutting-edge R&D dept., Pometon works in partnership with most important Universities worldwide and so is able to produce special powders and ensure overtime evenness in quality.

SINTER	FRICTION	METAL WORKING	CHEMICAL	DIAMOND TOOLS	JEWELRY	CARBON BRUSHES
						

THINK IT, MAKE IT

Pometon provides customised powders to meet clients requirements.

Metalworking

Blasting and surface treatments

POMETON GRANINOX Stainless steel shot is highly recommended when the chemical and color contamination typical of standard high carbon steel blasting cannot be accepted.
POMETON FERBLAST granules permits a perfect soft blasting. It is normally used to clean and maintain rubber, plastic with soft blast cleaning operations, which include mould cleaning, deflashing, also application where distortion of components could be a problem, and other low abrasive applications.
POMETON OT-SHOT ideal media for the blast cleaning of copper, brass and bronze components.

Welding

Metal powders POMETON FERELET are used for the production of arc-welding consumables.
The broad range of grades and composition available on the Pometon Ferrous and non Ferrous powders, covers the whole need for coating of welding electrodes, Flux cored wires and Metal cored wires market.

Flame cutting

POMETON FERTAG iron powder is an essential element for the flame cutting process. Its ability to provide heat and raise the temperature of the flame, permits fast, deep and precise cuts with substantial time and cost savings.

Magnetic crack detection

Thanks to their magnetic behaviour POMETON FERILEV iron powder is ideal in a number of magnetic applications, like non-destructive magnetic tests (i.e. on welding and casting discontinuity). This process permits to identify possible cracks or defects without damage the component.

GRANINOX
Pometon stainless steel shot and grit

Pometon produces the widest range of blasting abrasive on the market (7 solutions) to be used both on turbine and on compressed air machines: 5 spherical and 2 angular types to offer the most advantageous technical and economic solution for customer applications.

Chemical composition, microstructure, corrosion resistance, hardness and durability differentiate each product.
All Pometon abrasives are of exclusive internal production manufactured in Italian factories.

Spherical Stainless Steel shots

GRANINOX Cr Ni

LOW HARDNESS

Suitable for blasting Stainless steels and non-ferrous metals, where maximum resistance to corrosion and/or less aggressive processes are required. The extended durability of Graninox Chrome Nickel produces a stable work-mix and consistent surface finish. •Microstructure: austenitic •Particle Shape: spherical •Shape of the granules in operating conditions: spherical •Chemical composition (typical values): Chromium: 18%; Nickel; 8% Carbon 0.20%; Silicon 2%; Manganese 1% •Hardness: 250-350 HV

Duration: ●●●●● | Corrosion resistance: ●●●●● | Hardness: ●

GRANINOX Cr LN

MID HARDNESS

Intermediate solution for blasting of Stainless steels and non-ferrous metals, where high corrosion resistance and high production capacity is required. Advantages: Rapid cleaning and consistent surface finish. •Microstructure: Austenitic/Ferritic •Particle Shape: spherical •Shape of the granules in operating conditions: spherical •Chemical composition (typical values): Chromium: 18% Carbon: 0.25% Silicon: 2% Manganese: 1% •Hardness: 300-400 HV

Duration: ●●●● | Corrosion resistance: ●●●● | Hardness: ●●●

Spherical Stainless Steel shots

GRANINOX Cr

MID-HIGH HARDNESS

Graninox Chrome is the ideal solution for blasting Stainless steels and non-ferrous metals, where intermediate corrosion resistance and rapid processing times are required. Advantages: Effective for removing ceramic and other difficult to clean surface contaminants, particularly suitable for processing lost wax/ investment casting to obtain the highest casting precision without distortion. •Microstructure: Martensitic •Particle Shape: spherical-globular •Shape of the granules in operating conditions: spherical •Chemical composition (typical values): •Chromium 14%; Carbon 0.25%; Silicon 2% •Hardness: 400-600 HV

Duration: ●● | Corrosion resistance: ●●●● | Hardness: ●●●●

GRANINOX Cr-S

MID HARDNESS

Basic solution for blasting of Stainless steels and non-ferrous metals, with intermediate corrosion resistance and long service life. Advantages: Ideally suited for automotive components, where rapid processing times and extended durability are required, with the added benefit of greatly reduced machine wear. •Microstructure: Martensitic/Austenitic •Particle Shape: spherical-globular •Shape of the granules in operating conditions: spherical •Chemical composition (typical values): Chromium 14%; Carbon 0.25%; Silicon 2% •Hardness: 350-450 HV

Duration: ●●●● | Corrosion resistance: ●●● | Hardness: ●●●

Spherical Stainless Steel shots

GRANINOX Cr Ni | GRANINOX Cr LN

Particle size	% cumulative retained values (ASTM B 214)									
	CrNi 200 CrLN 200	CrNi 150 CrLN 150	CrNi 100 CrLN 100	CrNi 90 CrLN 90	CrNi 60 CrLN 60	CrNi 50 CrLN 50	CrNi 40 CrLN 40	CrNi 30 CrLN 30	CrNi 20 CrLN 20	CrNi 10 CrLN 10
4.00 mm 3.35 mm	0 10 max									
2.80 mm		0								
2.36 mm		10 max								
2.00 mm			0							
1.70 mm	90 min		20 max	0						
1.40 mm				5 max	0					
1.18 mm		90 min			20 max	0				
1.00 mm						5 max	0			
850 µm			90 min	90 min						
710 µm					90 min		20 max			
600 µm						85 min		0		
425 µm							90 min	20 max	0	
300 µm									10 max	
250 µm										0
150 µm								90 min		10 max
75 µm									90 min	
45 µm										90 min

GRANINOX Cr | GRANINOX Cr-S

Particle size	% cumulative retained values (ASTM B 214)								
	Cr 200 Cr-S 200	Cr 150 Cr-S 150	Cr 100 Cr-S 100	Cr 60 Cr-S 60	Cr 50 Cr-S 50	Cr 40 Cr-S 40	Cr 30 Cr-S 30	Cr 20 Cr-S 20	Cr 10 Cr-S 10
4.00 mm	0								
3.35 mm	10 max								
2.80 mm		0							
2.36 mm		10 max							
2.00 mm			0						
1.70 mm	90 min		20 max						
1.40 mm				0					
1.18 mm		90 min		20 max	0				
1.00 mm					5 max				
850 µm			90 min			0			
710 µm						10 max			
600 µm					90 min		0		
500 µm				90 min					
425 µm							20 max	0	
300 µm						90 min		10 max	
250 µm									0
150 µm							90 min		10 max
75 µm								90 min	
45 µm									90 min

Angular Stainless Steel shot

GRANINOX CrH

HIGH HARDNESS

Is a long life, high performance Stainless steel angular grit abrasive, with high hardness characteristics, giving a very rapid cleaning action, therefore an ideal replacement for aluminium oxide grit, garnet, and other mineral abrasives, offering very low levels of dust within and around the blast cleaning plant, improving operator visibility and cleanliness of your environment. Lasts up to 50 times (and more) than common mineral abrasives. Major cost savings can be made reducing abrasive consumption and lowering dust disposal costs. •Microstructure: Martensitic with Chromium carbides Particle Shape: Angular •Shape of the granules in operating conditions: Angular •Chemical composition (typical values): Chromium 28%; Carbon 2%; Silicon 2%; Manganese 1% •Hardness: 600-800 HV

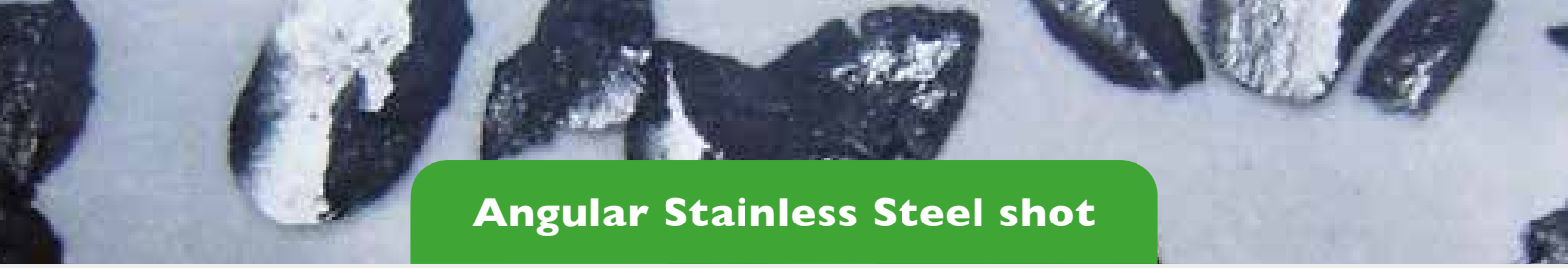
Duration: ●● | Corrosion resistance: ●●●● | Hardness: ●●●●●

GRANINOX CrH-S

MID-HIGH HARDNESS

CrH - S provides similar cleaning properties to CrH with increased durability due to the reduced hardness. •Structure: Martensitic with chromium carbides •Particle Shape: Angular •Shape of the granules in operating conditions: Angular •Chemical composition (typical values): Chrome 28%; Carbon 2%; Silicon 2%; Manganese 1% •Hardness: 500-750 HV

Duration: ●●● | Corrosion resistance: ●●● | Hardness: ●●●●



Angular Stainless Steel shot

GRANINOX CrH | GRANINOX CrH-S

Particle size	% cumulative retained values						(ASTM B 214)
	CrH 100 (G16)	CrH 60 (G25)	CrH 50	CrH 40 (G40)	CrH 30 (G50)	CrH 20 (G80)	CrH 10 (G120)
4.00 mm							
3.35 mm							
2.80 mm							
2.36 mm							
2.00 mm							
1.70 mm	0						
1.40 mm							
1.18 mm		0	0				
1.00 mm	70 min		5 max	0			
850 µm							
710 µm		70 min			0		
600 µm			90 min				
425 µm				70 min		0	
300 µm							0
250 µm					70 min		
150 µm						70 min	
75 µm							70 min
45 µm							

Soft blasting granules

FERBLAST
Pometon granules for not aggressive blast cleaning

FERBLAST soft metal beads are ferrous particles of very low hardness and density, designed for soft blast cleaning operations, which include mould cleaning, de-flashing, application where distortion of components could be a problem, and other low abrasive applications.
Offering high durability, with excellent performance and cleaning speed, these soft metal beads are used in both turbine wheel machines and air blast plants. Manufactured in two hardness values and a range of particle sizes, are available to suit clients' application.

STANDARD GRADES

Phisical properties		FERBLAST								
		MT 850/3.5	MT 500/3.6	MT 300/3.7	MT 106/3.80	RI 850/3.5	RI 500/3.6	RI 300/3.7	RI 212/3.7	RI 106/3.8
Chemical properties	Ot %	0,90 max	1,0 max	0,90 max	0,90 max	0,25 max	0,25 max	0,25 max	0,25 max	0,25 max
	C %	0,050 max	0,050 max	0,050 max	0,050 max	0,010 max	0,010 max	0,010 max	0,010 max	0,010 max
	S %	0,015 max	0,015 max	0,015 max	0,015 max	0,010 max	0,010 max	0,010 max	0,010 max	0,010 max
Apparent density	g/cm²	3,50±0,20	3,65±0,20	3,70±0,20	3,80±0,20	3,40±0,20	3,60±0,20	3,70±0,20	3,65±0,20	3,80±0,20
Granulometria Particle Size % cum.		0				0				
		10 max				10 max	0			
	710 µm		0							
	500 µm		15 max	0			15 max	0		
	425 µm									
	300 µm	95 min		15 max		95 max		15 max		
	250 µm								0	
	212 µm						70 min			
	180 µm				0					0
	150 µm		95 min	80 min				80 min	5 max	
	106 µm				20 max					15 max
	63 µm								95 min	
	45 µm				75-95					75-95

OT-SHOT
Brass shot

Is an atomised 70% copper and 30% zinc alloy, and is the ideal media for the blast cleaning of copper, brass and bronze components. Produced in two particle size distributions, to suit most blast cleaning requirements, Pometon OT-SHOT gives the benefit of achieving a very bright surface finish of copper and copper alloy products. When used in the cleaning of aluminium parts, the finish takes on a yellow-gold appearance. Pometon OT-SHOT, gives the added benefit of a long working life combined with low wear to your shot blast plant. •Particle shape: Round/globular •Particle shape in application: Round (Typical values) •Chemical composition •Copper 70% •Zinc 30% •Colour yellow gold

Duration: ●●●●●
Corrosion sistance: ●●●●●
Hardness: ●

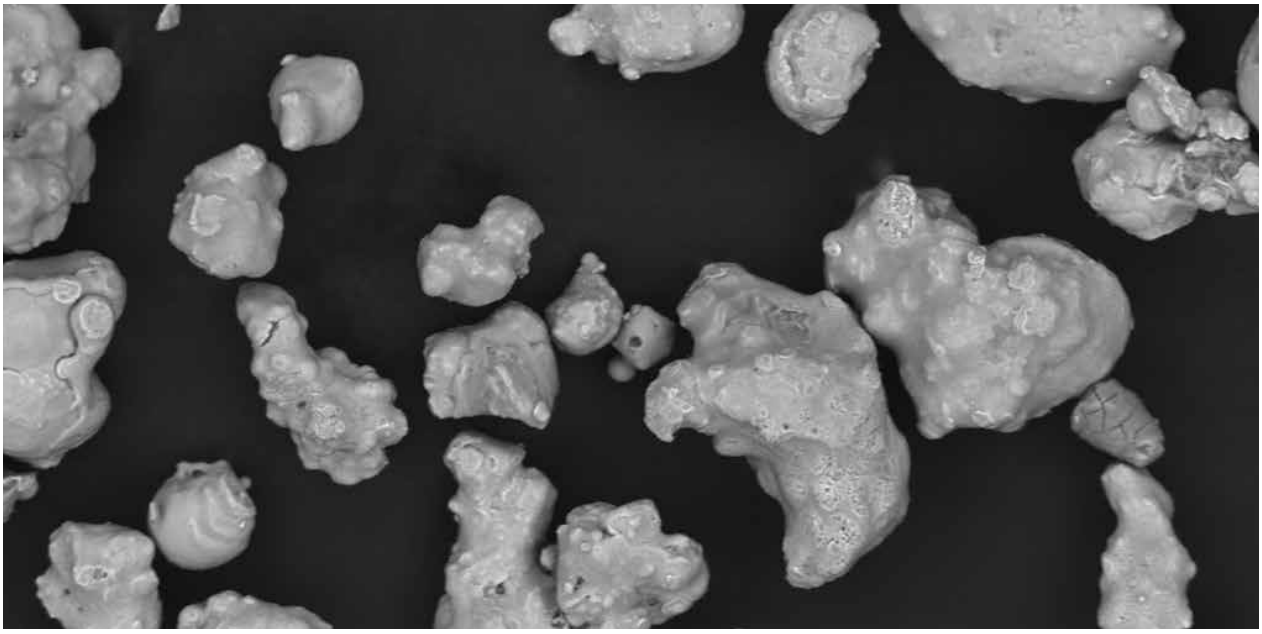
STANDARD GRADES

Phisical properties	% cumulative retained values	
	OT-S50	OT-S30
1.00 mm	0	0
500 µm		10 max
425 µm	90 min	
212 µm		90 max

Welding

FERELET
Pometon Powders for welding

Metal powders POMETON FERELET are used for the production of arc-welding consumables. The broad range of grades and composition available on the Pometon Ferrous and non Ferrous powders, covers the whole need for coating of welding electrodes, Flux cored wires and Metal cored wires market. RI types are recommended for medium and high efficiency basic electrodes. MT Types are recommended for very high efficiency basic or rutile electrodes. Grade 3.7C is most appreciated for high resistance steel, while 3.7 is designed for stainless steel. Pometon range of light copper powder is also used in specific welding applications. Check the website or contact us at sales@pometon.com



STANDARD GRADES

Phisical properties		FERELET					
		MT 425/3.0	MT 425/3.7	MT 425/3.7 C	RI 425/3.0	RI 425/3.7	RI 212/2.9
Chemical properties	Ot %	1,10 max	0,90 max	0,90 max	0,25 max	0,25 max	0,25 max
	C %	0,050 max	0,050 max	0,09 - 0,15	0,010 max	0,010 max	0,010 max
	S %	0,015 max	0,015 max	0,015 max	0,010 max	0,010 max	0,010 max
Flow rate	s/50 g	34 ± 5	24 ± 2	25 ± 2	34 ± 5	23 ± 2	27 ± 3
Apparent density	g/cm2	3,00 ± 0,20	3,70 ± 0,20	3,70 ± 0,20	3,00 ± 0,20	3,70 ± 0,10	2,90 ± 0,10
Particle Size % cum.	> 600 µm	0	0	0	0	0	
	425 µm	5 max	5 max	5 max	5 max	5 max	
	300 µm						0
	150 µm						15 max
	63 µm	85 min	85 min	80 min	85 min	85 min	65 - 75

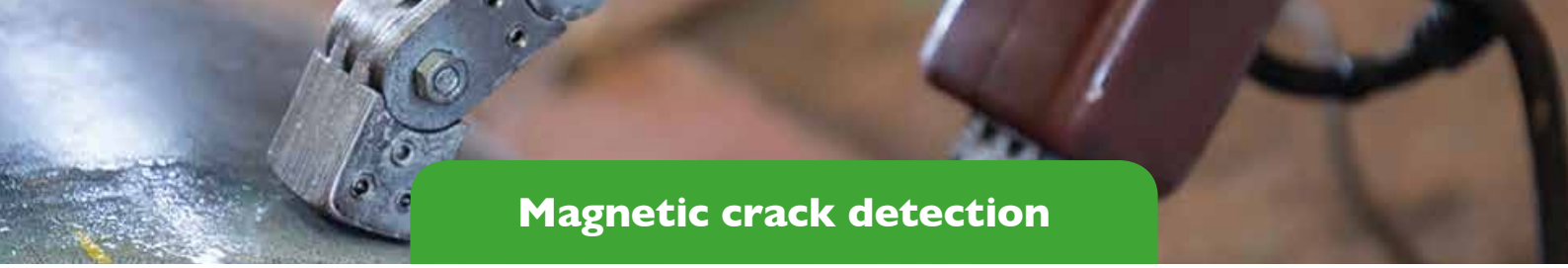
Flame cutting

FERTAG
Pometon powders for Flame Cutting

FERTAG powders are used in special oxyacetylene torches and thermal lances where, once injected together with additional oxygen, generates heat, increasing the flame temperature and forming a highly abrasive jet. FERTAG is used in foundries to cut stainless steel, cast iron, copper and its alloys, to remove risers, in the iron and steel industry for ingot, superficial cleaning of large castings and slag or refractory coating demolition and in the mechanical industry.

STANDARD GRADES

Phisical properties		FERTAG							
		MT 75/3.6	MT 106/3.7	MT 150/3.7	MT 150/3.2C	MT 212/3.3	MT 212/3.7	RI 150/3.4	RI 212/3.4
Chemical properties	Ot %	1,20 max	1,20 max	1,10 max	1,10 max	1,20 max	1,00 max	0,25 max	0,25 max
	C %	0,055 max	0,055 max	0,050 max	0,025 max	0,050 max	0,050 max	0,010 max	0,010 max
	S %	0,015 max	0,015 max	0,015 max	0,020 max	0,015 max	0,015 max	0,010 max	0,010 max
Flow rate	s/50 g	20 ± 3	20 ± 3	20 ± 3	24 ± 3	24 ± 5	20 ± 3	20 ± 3	20 ± 3
Apparent density	g/cm^2	3,70 ± 0,20	3,70 ± 0,20	3,70 ± 0,20	3,00 ± 0,20	3,40 ± 0,20	3,70 ± 0,20	3,40 ± 0,20	3,40 ± 0,20
Particle Size % cum.	>250 µm					0	0		0
	212 µm					5 max	5 max	0	5 max
	150 µm	0	0	1 max	1 max			1 max	
	106 µm		10 max						
	75 µm	15 max							
	45 µm	25 - 45	40 - 70	55 - 75	60 - 80	15 - 40	65 - 87	45 - 85	60 - 85

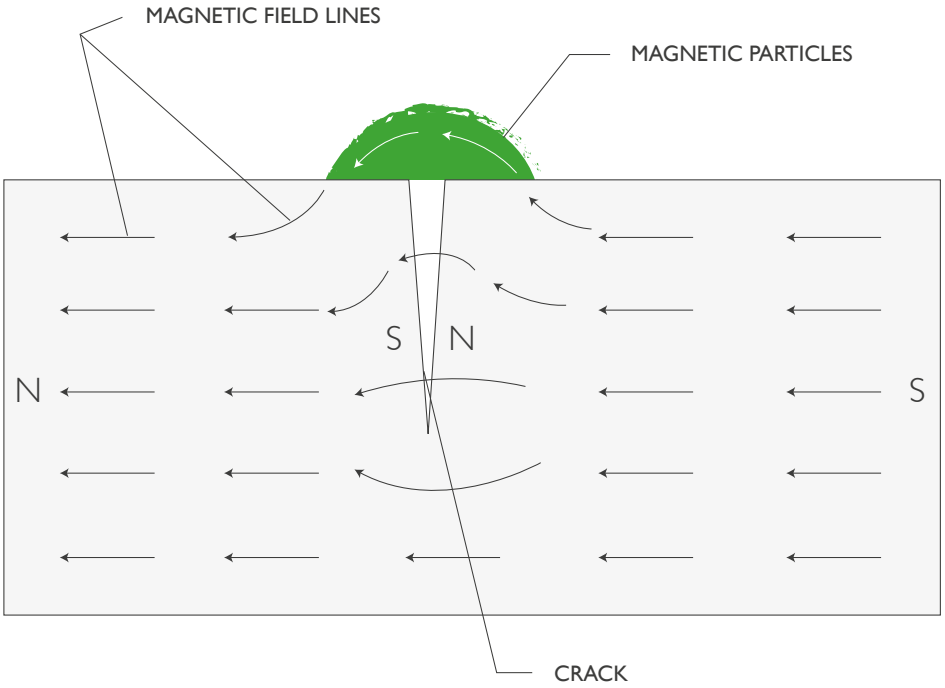


Magnetic crack detection

FERILEV
Pometon powders for magnetic crack detection

FERILEV powders detect discontinuities and cracks on mechanical parts, welds, molten ferrous pieces and are used in the non-destructive magnetic rapid control.
They are supplied in titanium white colour.

If the ferrous piece has a discontinuity, the crack itself create a distortion of the magnetic field.



With the use of Ferilev powders, supplied also in titanium white color, it is possible to detect the dispersion of magnetic flux at the cracks.

STANDARD GRADES

Phisical properties		FERILEV	
		MT 106/3.7	RI 106/3.2
Chemical properties	Ot %	0,90 max	0,25 max
	C %	0,050 max	0,010 max
	S %	0,015 max	0,010 max
Flow rate	s/50 g	20 ± 4	24 ± 3
Apparent density	g/cm2	3,75 ± 0,20	3,20 ± 0,20
Particle Size % cum.	>250 µm		
	212 µm	0	0
	150 µm		
	106 µm	15 max	10 max
	75 µm		
	45 µm	75 - 95	80 - 90

Quality Safety & Environment

Pometon recognizes its social responsibility to the Earth and its commitment to our local community, which is important for the sustainable future of our company. We are committed to improve every day and endeavor to create an environmental that is better than regulations. This philosophy makes Pometon a eco-compatible partner to our customers. Continuous improvement to the health and safety parameters of our working environment is our commitment to our employees.

bsi. ISO 9001:2015 Quality Management

bsi. ISO 14001:2015 Environmental Management

bsi. OHSAS 18001 Occupational Health and Safety Management

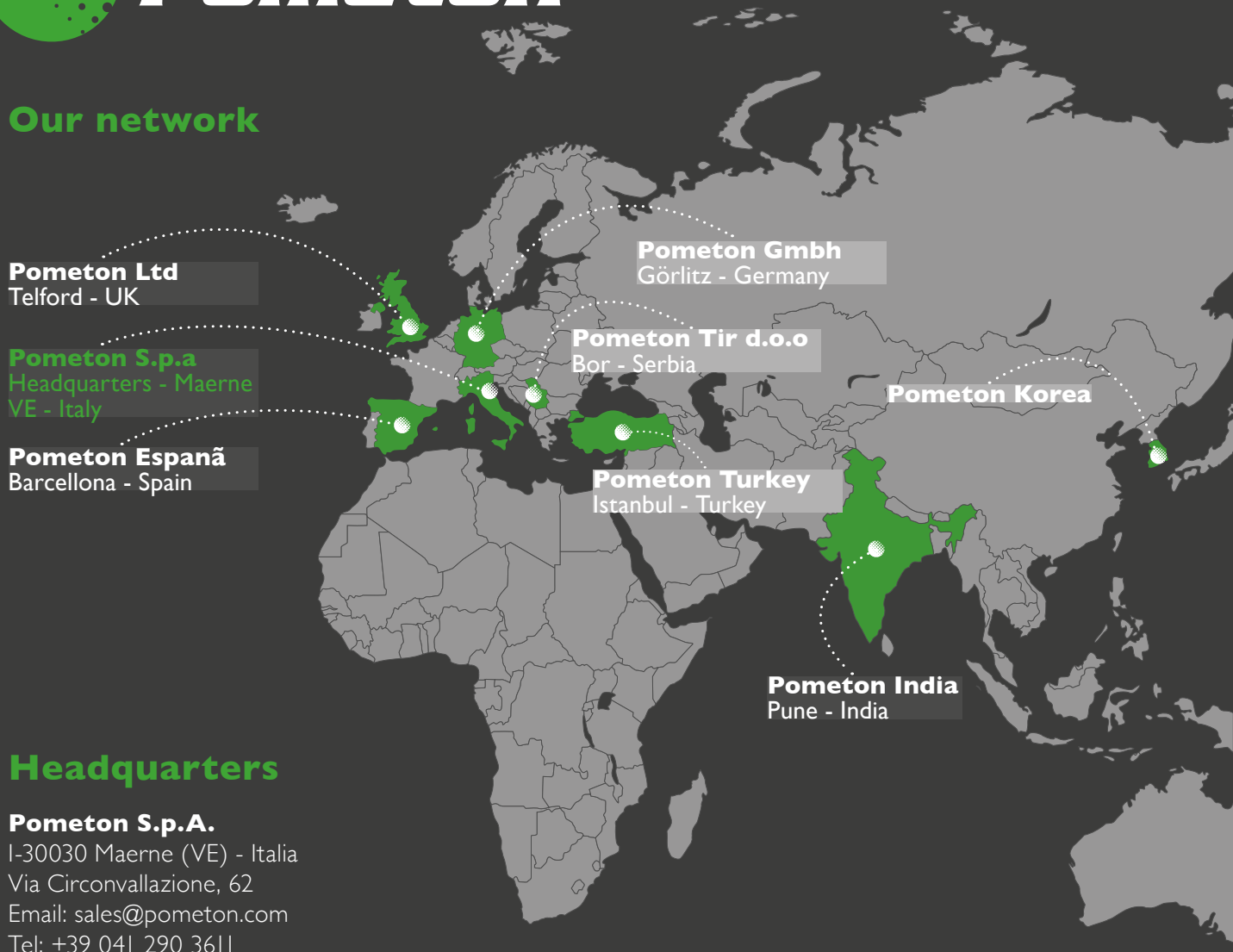
Notes on packaging

Standard packing

- **Plastic bags** 25 (PE) kg net on 80x120 cm pallets of 500/1000 kg, protected by shrink-wrapping.
- **Metal tins, big bags, and other special types**, available upon request.

Pometon

Our network



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