

40 years

of Ceramic media

CIMA began production in 1969, thanks to the experience built up by its founder, *Claudio Baccialone*.

The company, now run by the third generation of the family, is pleased to present its latest catalogue.

The production area covers 8000 m² and is located in a strategic position, just a few minutes from Orio al Serio international airport and the most important motorways of northern Italy.



With over 40 years' experience, we are at the forefront in the production of ceramic media, chemical products and vibrofinishing solutions.



CIMA implements and maintains a quality management system complying with Standard *ISO* 9001/2008 for the:

"Design, Production and Sale of pre-formed ceramic media and ceramic supports."

Production and Sale of chemical auxiliaries for vibrofinishing"

The quality of our products is guaranteed by strict controls throughout the production process, and by technical tests carried out in our laboratories.

That's why CIMA is the ideal partner for your production process solutions.



Quality





ceramics

& technology



Triangles, balls, ellipses, cones, cylinders, pyramids these are just some of the shapes in our range, all available from the honing mixtures through to the abrasive ones. We also produce ceramics for super-polishing processes, and high-density ceramics for chemical finishing.

Our modern, automated production systems are continuously monitored by the most up-to-date technology, to guarantee constantly high quality levels and the best technical standards throughout the production process, from the smallest pieces (1.5mm) to the largest (60mm).

Chemical products

and solutions

Our ceramics can work with water alone but, for all those customers who require additives to improve the process, we have developed a range of chemical products to meet your varying needs. We produce solutions for degreasing, polishing and surface protection, as well as pastes and products for vibropolishing and chemical finishing.



Environment

a constant

priority



Using a ceramic abrasive for vibrofinishing not only offers technical advantages, but also lessens the environmental impact. Our ceramics, in fact, are produced with 100% European raw materials, all of a natural origin and obtained from certified suppliers to guarantee a top quality product that's also a *Friend of Nature*.

The chemical production uses raw materials from the best European producers, working in total respect of the European Community safety and environmental Standards.

Our *laboratories*

We have a modern laboratory and test room where different vibrofinishing machines are used to develop and test our products.

The CIMA technology and experience are at your service to study or improve your vibrofinishing processes, and to carry out sampling tests

Our technicians can boast long-term experience in this field, and will be happy to advise you on the most suitable solutions for your own specific needs.





APPLICATIONS

		DEBURRING	RECOMMENDED FOR THE REMOVAL OF BURR CAUSED BY SHEARING, PRESSING AND FUSION					
CER/		RADIUSING	APPLICATION TO BEVEL AND CHAMFER BURR, CORNERS AND ANGLES					
CERAMIC		SMOOTHING	TREATMENT TO IMPROVE SURFACE ROUGHNESS					
	N DOD	VIBROPOLISHING	Super-finishing with low roughness values and sparkling surfaces					
		DEGREASING	CHEMICAL/CERAMIC APPLICATION FOR THE REMOVAL OF OILS, GREASES AND EMULSIONS					
CHEMICAL		BALL BURNISHING	PROCESS USING PORCELAIN OR STAINLESS STEEL BALLS TO BUFF/DEGREASE METALS					
		CHEMICAL FINISHING	APPLICATION OF SMOOTHING AND SUPER-FINISHING USING CHEMICAL ACCELERANTS					

SHAPE

CIMA offers a wide range of geometric shapes, varying according to the customer's technical requirements. It is essential to choose the right geometric shape in order to obtain the best end result on the piece. Geometric details like holes, grooves and channels must be carefully examined to prevent any problems of sticking and separation

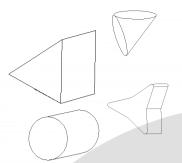


TABLE SHOWING MINIMUM AND MAXIMUM VALUES FOR EACH SHAPE

	//	
MINIMUM	MAXIMUM	
3	60	
1.5	30	
8	30	
4	30	
10	45	
35	50	
	3 1.5 8 4 10	3 60 1.5 30 8 30 4 30 10 45

SHAPE	MINIMUM	MAXIMUM
CONE	15	40
PYRAMID	38	/
ARROW	10	20
DROP	10	25
BALL	4	12

	LENGTH	Minimum 3 mm Maximum 60 mm
СИТ	STRAIGHT CUT	For more delicate processing with a better finish
	ANGLE CUT 30° / 40°	Specific cut to improve the <i>contact</i> , touching even the most difficult points

Specific WEIGHT

The specific weight determines the friction force of the ceramic on the surface of the piece, and consequently its processing times and finish quality. For this reason, we have developed not only standard ceramics but also others with different specific weights which, depending on the type of paste, can produce a *honing, super-abrasive* or *super-polishing* effect



ABRASIVE strength

The percentage and granulometry of the abrasive determine the degree of removal of material in line with the surface roughness.

Our warehouse contains 300 tonnes of different types of abrasive - SOFT and HARD - in various granulometries from coarse grain to micrograin, to satisfy every possible finishing requirement.

More specifically: brown ruby corundum, pink corundum, silicon carbide and aluminium oxide.

MIN																MAX
N	FAS	TK 2	SA	WE	ASR	EVO	TK5	А	AGG	KFR	KFR GG	S	SGG	BROWN	PINK	BR 4

POLISHING strength

The *KERABLANK* porcelain and the high density *BG*, added to pastes and chemical products, were developed for the vibropolishing and chemical finishing processes, where a low degree of roughness is needed along with highly polished surfaces.

	SPECIFIC WEIGHT	ADDITIVES				
KERABLANK	3.0 Kg/l	Abrasive pastes/ Polishing pastes	+	Polishing and/or protective		
BG	3.5 Kg/l	Chemical accelerants	+	Polishing and/or protective		

PRE RUN-IN SERVICE AVAILABLE UPON REQUEST

CHEMICAL compound

The combined chemical product and ceramic ensures a better performance level, keeping the surface clean and improving the contact with the piece being treated. We have created a range of products with different characteristics suited to the individual applications, such as: *degreasers for use on oils and emulsions, deoxidisers, polishes, surface protecters* and products for processes using recirculating water. We also produce *pastes* and additives for vibropolishing and chemical finishing processes.

	CODE	ТҮРЕ	ROUGHNESS	MOHS	SPECIFIC WEIGHT - Kg/l	STRENGTH
	N	NO ABRASIVE		7.3	2.37	
	FAS	SMOOTHING		7.4	2.44	
,	TK 2	SEMI ABRASIVE		7.5	2.44	
	SA	SEMI ABRASIVE	and many water	7.5	2.44	
,	WE	MEDIUM ABRASIVE	Varfaller market market market	7.6	2.44	
	ASR	MEDIUM ABRASIVE	MA A A A A A A A A A A A A A A A A A A	7.6	2.55	
	EVO	MEDIUM ABRASIVE	and the same of th	7.7	2.56	
	TK 5	ABRASIVE	water have a fall from hy from the fall of	7.9	2.58	
	Α	ABRASIVE	wat his property of the same o	7.9	2.59	
	AGG	ABRASIVE	Marinity brought has been to be the transfer of the transfer o	7.9	2.60	
	РВ	STRONG ABRASIVE	Mary Mary Mary Mary Mary Mary Mary Mary	7.3	2.20	
	KFR	STRONG ABRASIVE	may man May mandy	7.9	2.61	
	KFR GG	STRONG ABRASIVE	my Marine of Mar	7.9	2.61	
,	S	SUPER ABRASIVE	1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	7.9	2.61	
	SGG	SUPER ABRASIVE	And the same of th	7.9	2.61	
	BROWN	IPER ABRASIVE	Think who was the same of the	7.9	2.59	
	PINK	IPER ABRASIVE	MAN LAMON AND MANAGEMENT AND MANAGEMENT OF THE M	7.9	2.60	
	BR 4	IPER ABRASIVE	many many many man	7.9	2.75	
	PORCELLANA sienitica	SOFT POLISHING PORCELAIN	h	7.5	2.60	
	KERABLANK	HIGH DENSITY POLISHING PORCELAIN (WHITE)		8.4	3.00	
	BG	HIGH DENSITY POLISHING (BLACK)		8.5	3.50	
	CERAPLAST	SMOOTHING POLISHING	and the second s	7.2	2.30	
		ABRAS	IVE STRENGTH SM	OOTHING STRENGTH	POLISHING STRE	NGTH

	TRIANGLE	ROUNDED TRIANGLE	TRIANGLE A/C	CYLINDER	CYLINDER A/C
geometry	a x b	a x b	a x b	a x b	a x b
N FAS TK 2 SA WE ASR EVO TK 5 A AGG KFR KFR GG S SGG BROWN PINK BR4	03 x 03 04 x04 05 x 05 06 x 06 07 x 07 08 x 08 10 x 10 12 x12 13 x 13 15 x 15 18 x 18 20 x 20 25 x 25 30 x 30 32 x 32 34 x 34 40 x 40 45 x 40 50 x 50 60 X 20 60 x 50	09 X 10 13 X 13 25 X 25 32 X 32	03 X 10 04 X 10 05 X 10 06 X 06 (10) 07 X 07 (10) 08 X 08 10 X 10 12 X 12 15 X 15 15 X 20 20 X 20 25 X 25 30 X 30 32 X 32 34 X 34 40 X 40 45 X 30 50 X 30 50 X 30 60 X 30	1,5 X 5 2 X 5 03 x 10 04 X 08 06 X 10 07 X 10 08 X 12 10 X 12 12 X 15 15 X 17 20 X 25 25 X 30 30 X 35	1,5 X 6 2 X 6 03 X 06 (08) (10) (12) 04 X 06 (08) (10) (12) 05 X 06 (08) (10) (12) 06 X 06 (10) (12) (15) 07 X 10 (12) (15) (20) 08 X 12 (15) (20) (25) 10 X 12 (15) (20) (25) 12 X 25 (30) 15 X 25 (30) 18 X 27 20 X 20 (25) (30) 25 X 25 (30) 30 X 30 (40)
PORCELLANA SIENITICA	03 X 03 04 X 04 06 X 06 10 X 10		03 X 06 04 X 06 06 X 10 10 X 12	03 X 06 04 X 08 06 X 12	03 X 06 04 X 08 06 X 10 (12) (15) 08 X 15
KERABLANK	03 X 03 04 X 04 06 X 06 10 X 10 12 X 12		03 X 06 04 X 08 06 X 10 10 X 10 12 X 12	1,5 x 5 02 X 08 (10) 03 X 08 (10) (12) 04 X 10 (12) 06 X 12 (15) 07 X 12 (15) 08 X 12 (15) 10 X 10 (12) (15)	1,5 X 6 02 X 06 (08) 03 X 06 (08) (10) 04 X 08 (10) (12) 06 X 10 (12) (15) 07 X 12 (15) 08 X 12 (15) 10 X 10 (12) (15)
BG	03 X 03 04 X 04 06 X 06 10 X 10		04 X 08 06 X 10 (12) 10 X 10 (12) 20 X 10 45 X 12	02 X 06 (08) 03 X 06 (08) 04 X 10 (12) 06 X 12 (15) 10 X 15 (20) 15 X 20 (25)	02 X 06 (08) 03 X 06 (08) 04 X 10 (12) 06 X 12 (15) 10 X 15 (20) 15 X 20 (25)
PB	07 X 07 12 X 12 15 X 15 20 X 20 25 X 25 30 X 30 32 X 32 34 X 34 40 X 40 50 X 50		10 X 10 15 X 15 20 X 20 25 X 25 30 X 30	10 X 15 (20) 15 X 20 (25) 20 X 20 (25) (30) 25 X 25	10 X 15 (20) 15 X 20 (25) 20 X 20 (25) (30) 25 X 25
CERAPLAST	07 X 07 10 X 10 12 X 12 20 X 12 20 X 20		07 X 12 10 X 12 (15) 15 X 20 (25) 20 X 20	07 X 12 (15) 10 X 15 (20) 15 X 20 (25) 20 X 20 (25) (30)	07 X 12 (15) 10 X 15 (20) 15 X 20 (25) 20 X 20 (25) (30)

	ELLIPSE	ELLIPSE A/C	TRI-STAR	TRI-STAR A/C
type	a x b x c	a x b x c	a x b	a x b
N FAS TK 2 SA WE ASR EVO TK 5 A AGG KFR KFR GG S SGG BROWN PINK BR4	08 X 03 X 08 10 X 5 X 10 (15) 12 X 5 X 12 (15) 15 X 7 X 15 (20) (25) 16 X 8 X 16 (20) (25) 20 X 9 X 20 (25) 25 X 10 X 25 (30) 30 X 12 X 30 (35)	08 X 03 X 08 08 X 03 X 10 10 X 05 X 10 12 X 05 X 12 15 X 07 X15 16 X 08 X15 20 X 09 X 20 20 X 09 X 25 25 X 10 X 20 25 X 10 X 25 30 X 10 X 30 30 X 10 X 35	04 X 04 06 X 06 10 X 10 12 X 12 15 X 15 20 X 20 25 X 25 30 X 30	04 X 06 04 X 08 06 X 06 06 X 10 10 X 12 10 X 15 12 X 12 12 X 15 15 X 10 15 X 15 15 X 20 15 X 25 20 X 10 20 X 20 20 X 25 25 X 15 (25) (30) 30 X 12 (15) (30)
PORCELLANA SIENITICA	10 X 5 X 10 15 X 7 X 15	10 X 5 X 10 15 X 7 X 15		
KERABLANK	08 X 3 X 08 08 X 3 X 10 10 X 5 X 10 15 X 7 X 15 20 x 5 x 20	08 X 03 X 08 08 X 03 X 10 10 X 5 X 10 15 X 7 X 15 20 x 5 x 20	03 X 03 04 x 04 04 X 06 06 X 10 10 X 10	03 X 03 04 x 04 04 X 06 06 X 06 10 X 10
BG	08 X 3 X 08 08 X 3 X 10 10 X 5 X 10 15 X 5 X 15 20 X 9 X 20 25 X 10 X 25	08 X 3 X 08 08 X 3 X 10 10 X 5 X 10 15 X 5 X 15 20 X 9 X 20 25 X 10 X 25	03 X 03 04 X 04 04 X 06 06 X 10 10 X 10 10 X 12	03 X 03 04 X 04 04 X 06 06 X 10 10 X 10 10 X 12
PB	15 X 7 X 15 20 X 9 X20 25 X 10 X25	15 X 7 X 15 20 X 9 X20 25 X 10 X25		
CERAPLAST	10 X 5 X15 15 X 5 X15 20 X 9 X 20 25 X 10 X 25	10 X 5 X15 15 X 5 X15 20 X 9 X 20 25 X 10 X 25		

PYRAMID	ARROW	DROP	BALL	RHOMBUS	STAR	CONE
38 X 40	10 X 10 12 X 12 15 X 10 18 X 18 20 X 12	10 12 15 18 25	4 5 6 7 8 10 12	35 X 25 X 25 50 X 30 X 30	10 X 10 (20) 25 X 20 45 x 15	15 20 30 40
			4 6 7 8 10 12			
		10 12 15 18 25	4 6 7 8 10 12			15 20
						15 20 30 40
38 x 40						15 20 30 40

LIQUID CHEMICAL products

			CHARAC	TERISTICS	
CODE	PH VALUE 5%	PASSIVATING	PICKLING	DEGREASING	POLISHING
CLEANER 70	7 - 8	•		***	**
CLEANER 80	6			***	**
CLEANER 90	6			***	**
CLEANER 95	8 - 9	***		***	**
CLEANER 95/PR	9 - 10	***		***	*
CLEANER 120	8.5 - 9	**		***	**
KORALLE S EVOL	7			***	***
WELLE DESOX	4		•	***	***
LICHT EXTRA	4		•	***	***
LUZERN SPECIAL	4 - 5		•	***	***
LUZERN NEUTRAL	7			***	***
LUZERN EVOL	4 - 5		•	***	***
LUZERN FE	9 - 10	***		**	***
RE 49/2	9 - 10	***		**	
RE 90	8 - 9	***		**	
RE 100	7 - 8	**		**	

	PRO	CESS	
BALLS	CERAMIC	PORCELAIN	RECIRCULATION
•	***	**	
•	***	**	
•	***	**	
•	***	**	
	***	**	
•	***	**	

***		•	

***		•	
***		•	**
	•		***
	•		***
	•		***

	SUR	FACE	
FERROUS	STAINLESS STEEL	COPPER/BRASS	ALUMINIUM
•	**	**	**
	***	+	***
	***	***	***
***	**		•

***	**		
•	**	**	**
	***	**	***
	***	***	**
	***	•	***
•	**	**	**
	***	**	***

***	•		
***	**		
**	**	•	•

♦ min - ♦♦ medium - ♦♦♦ max

CIMA IS AT YOUR DISPOSAL TO DESIGN CUSTOMISED COMPOUNDS

CHEMICAL FINISHING

CODE	PH
CHEMICAL 04	2
CHEMICAL 04/B	9
CHEMICAL 06	2
CLEANER DS85	11
CLEANER BG	11

	CHARACTERISTICS		
Powder ACID-BASED CHEMICAL HONING AGENT FOR FERROUS METALS			
Liquid CHEMICAL ACTIVATOR FOR STAINLESS STEEL			
Liquid CHEMICAL HONING AGENT FOR FERROUS METALS		CHEMICAL HONING AGENT FOR FERROUS METALS	
	Liquid PROTECTIVE POLISH USED AFTER HONING PROCESS		
Liquid PROTECTIVE POLISH USED AFTER HONING PROCESS		PROTECTIVE POLISH USED AFTER HONING PROCESS	

WATER TREATMENT

CODE	PH
ACTIVEFLOC BI	
ACTIVEFLOC CA	
ACTIVEFLOC AP 358	
ACTIVEFLOC AP 258	

	CHARACTERISTICS		
Powder POWDER FLOCCULANT		POWDER FLOCCULANT	
	Powder POWDER FLOCCULANT WITH ACTIVATED CARBONS		
	Liquid CATIONIC LIQUID FLOCCULANT		
	Liquid	CATIONIC LIQUID FLOCCULANT	

PASTES

CODE	PH VALUE 0.5%
AP 090 PASTE	9
AP 081 PASTE	9
AP 050 PASTE	9
AP 020 PASTE	9
MP 001 PASTE	9
MP 044 PASTE	9 - 10
MP 101 PASTE	9
MP 805 PASTE	9
MP 710 PASTE	9

ABRASIVE STRENGTH	SMOOTHING STRENGTH	POLISHING STRENGTH	CHARACTERISTICS
***			SUPER-ABRASIVE PASTE FOR GRINDING PROCESSES
***	•		SUPER-ABRASIVE PASTE FOR FINE GRINDING PROCESSES
**	***		STANDARD ABRASIVE PASTE
•	***		ABRASIVE PASTE FOR REMOVAL AND SMOOTHING PROCESSES
	**	**	HONING AND POLISHING PASTE FOR SOFT METALS
	**	***	POLISHING PASTE WITH SLIGHT SMOOTHING QUALITY
	•	***	POLISHING AND SMOOTHING PASTE
		***	SUPER-POLISHING PASTE
		***	POLISHING PASTE FOR HARD METALS

♦ min - ♦♦ medium - ♦♦♦ max

CIMA IS AT YOUR DISPOSAL TO DESIGN CUSTOMISED COMPOUNDS

POWDERS

CODE	PH
SME POWDER	8
AS 5 POWDER	8
FE 30 POWDER	10
FE 10 POWDER	10
DGS POWDER	11
BRIL POWDER	5

CHARACTERISTICS		
SUPER-ABRASIVE POWDER FOR GRINDING PROCESSES		
ABRASIVE POWDER FOR BRASS AND ALUMINIUM AND STAINLESS STEEL ALLOYS		
ABRASIVE POWDER FOR FERROUS MATERIALS		
HONING AND POLISHING POWDER FOR FERROUS MATERIALS		
ALKALINE-BASED DEGREASING POWDER		
DEGREASING AND POLISHING POWDER		

..... AND

CODE	
GM 12 16 20 30	
GN 16 20 30 80	
AISI 420 STEEL BALLS	
WOOD STICKS	

CHARACTERISTICS
CORN COB GRANULES
NUTSHELL GRANULES
STAINLESS STEEL BALLS FOR BALL BURNISHING - AVAILABLE IN VARIOUS DIAMETERS
BEECH-WOOD STICKS FOR DRY POLISHING

NOTES



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