

**ISO 9001: 2015 | Our Motto:**  
Certified Company | Commitment to Quality and Customer Care



**The Metal Powder Company Limited**  
Maravankulam, Thirumangalam- 625706 Madurai Dist., Tamilnadu, India  
Phone: 04549-350499, 280376, 280595  
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Contact us

**Manufacturing Units:**

The Metal Powder Co.Ltd: 82709 90007  
Madhya Pradesh Metal Powders: 73892 53483  
Mepco Speciality Products: 91599 90863  
Nalco Metal Products: 97866 66277  
Aluminium Powder Company Ltd: 9786511995

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**THE METAL POWDER COMPANY LIMITED**  
*Manufacturer of metal powders & pastes*





## ABOUT US

### Factory & Head Office:

#### The Metal Powder Company Limited,

Maravankulam, Thirumangalam-625706, Madurai District, Tamil Nadu, India

**Phone:** 04549-350499, **Mob:** 98431 21995, 82709 90007, 82708 80007,

**e-mail:** info@mepco.co.in, **website:** www.mepco.co.in;

**Products manufacturing:** Atomized Aluminium Powders, Aluminium Alloy Powder, Aluminium Pigment Pastes, Aluminium Pigment Powders, Brazing Powders, Bismuth Trioxide, Brass Powders, Bronze Powders, Calcium Silicide Powder, Cobalt Powder, Cobalt Oxide, Concrete grade Aluminium Powder; Copper Powders, Cupric Oxide, Cuprous Oxide, Cupro Nickel Powder, Electrolytic Copper Powder, Ferro Aluminium Powder; Ferro Silicon Powder Gold Bronze Powders, Magnesium Powder, Magnalium Powder, Non Ferrous Metal & Alloy Powders, Phosphor Copper Powder, Pre-mixed Zinc Alloy Powder, Pyrotechnic & Mining Explosive grade Aluminium Powders, Red Phosphorous Powder, Silicon Powder, Silver Powder, Spherical Aluminium Powder, Stabilized Aluminium & Gold Bronze Powders, Tin Powder, Titanium Powder, Tungsten Powder, Tungstic Oxide; Zinc Dust, Zinc Paste, Zinc Flake Powder, AAC Blocks etc.

**Incorporation:** 1961

**Commercial Production:** 1966

**First Products:** Atomized Aluminium Powder & Pyrotechnic Powder for Fireworks

**Expansion:** Through our own R&D wing developed

1968-1969	Aluminium Paste	2006	Neeral-Water Borne Aluminium Paste,
1970-1971	PPP Aluminium Powder	2007	Zinc Paste, Zinc Flake
1973-1974	Zinc Dust	2008	Spherical Aluminium powder
1974	Copper & Copper Alloy Powder	2009	Astrolux, Glitter Glamour, Silplux, Silver Premier
1974-1975	Gold Bronze Powder	2010	Actabrite,
1975-1976	Red Phosphorus powder,	2013	Gold Bronze Powder -new versions
1977	Electrolytic copper powder	2014	Titanium Powder, Stabilized Gold Bronze
1978	Silver powder, Magnalium powder		& Aluminium Powders
1980	Cuprous Oxide (Red),	2015	Special Pyrotechnic Aluminium Powders, AAC Blocks,
	Pre-mixed Zinc Alloy Powder,		Silvosheen Leafing Aluminium Paste, Silvolux Non
1982	Cobalt powder, Tungsten powder		Leafing Aluminium Paste, Mirrolux Non Leafing
1987	Magnesium Powder		Aluminium Paste, Ecosheen Waterborne Aluminium
1990	Cupric oxide		Paste, LP Sheen Leafing Aluminium Powder
1992	Water borne Aluminium powder for AAC	2020	Resin-coated Aluminium pigment
2003	Brazing Powder	2022	Gold Powder
2005	Water borne Aluminium paste for AAC	2024-2025	Zinc Paste & Zinc Flake - Improved
2005	Bright Metallic Aluminium Paste		



## ABOUT US

New products like new generation Metallic pigments, Water-borne Aluminium pastes, Aluminium pellets / granules for Plastic master batches, Inks, Automotive coatings, OEM coatings, Powder coatings, Protective coatings, Cosmetics, Textile coatings, Electronic equipments, Waterborne paints etc and various grades of Aluminium paste for light weight concrete applications are going on developed as per customers' needs.

### R& D Laboratory

(established in the year 1976)

Quality of products and their conformity to international standards are ensured by the Quality Control and exercised by the company's own sophisticated R&D Lab recognized by DSIR – Ministry of Science & Technology, Government of India, one of the best Laboratories in the country well equipped with sophisticated equipments like Scanning Electron Microscope, Atomic Absorption Spectro Photometers, Laser Diffraction Particle size Analyzers, Fisher Sub-Sieve Sizer, Metallurgical Microscope, Electronic Moisture Balance, Profile Projector, ICP-OES etc. The R&D activities of the company have won National Awards for import substitution and also achieved Process Development especially in respect of Aluminium Pastes & Powders, Magnesium & Magnalium Powders, Gold Bronze Powders, Pyrotechnic & Explosive grade Aluminium Powders, Red Phosphorus Powder etc,

### Quality Assurance Lab

The Metal Powder Company-Quality Assurance Laboratory has been assessed and accredited by NABL in accordance with ISO/IEC 17025:2017 in the field of Testing.

### Associate Company

(started in the year 1983-84)

**M/s. Aluminium Powder Company Ltd.,**  
266/2, Virudhunagar Road, Melakkottai,  
Thirumangalam - 625706. Mob: 91599 90862, 97865 11995;  
e-mail: [alalco@alalco.co.in](mailto:alalco@alalco.co.in) web: [www.alalco.co.in](http://www.alalco.co.in);

**Products manufacturing:** Atomized Aluminium Powder, Aluminium Paste & Pyrotechnic Aluminium Powder

### Subsidiary Company

(taken over in the year 1984)

**M/s. Nalco Metal Products Limited.,**  
S/331, Batlagundu Road, Nilakkottai - 624 208.  
Phone: 04543- 230962, 233616; Mob: 97866 66277  
e-mail: [nalco@mepco.co.in](mailto:nalco@mepco.co.in)

**Products manufacturing:** Atomized Aluminium Powder & Pyrotechnic Aluminium Powder

### Our Pithampur Unit

(taken over in the year 1993)

**M/s. Madhya Pradesh Metal Powders,**  
(Unit of The Metal Powder Company Limited),  
Plot No. 102, Sector II, Industrial Area, Pithampur - 454 775.  
Phone: 07292-253485 Mob: 99260 03369  
e-mail: [mpmp@mepco.co.in](mailto:mpmp@mepco.co.in)

**Products manufacturing:** Atomized Aluminium Powder, Aluminium Paste & Pyrotechnic Aluminium Powder

### Mepco Unit III - NFPP

(started in the year 2007)

**The Metal Powder Company Limited Unit III – NFPP**  
98 – 3B1, Perumal Koil Road, Kappalur, Thirumangalam,  
Madurai-625008. Phone: 04549 – 280599, 280376, 280595;  
Mob: 98431 21995  
e-mail: [info@mepco.co.in](mailto:info@mepco.co.in)

**Products manufacturing:** Spherical Aluminium Powder,



### **Our Kalligudi Unit:**

(started in the year 2008-2009)

### **M/s Mepco Speciality Products**

(Unit of The Metal Powder Company Limited)

S. No. 308- 312, NH-7, K.Vellakulam, Kalligudi-625 701.

Phone: 91599 90863; e.mail: msp@mepco.co.in

**Products manufacturing:** Specialty Aluminium Pastes & Powders.

### **AAC Unit**

(started in the year 2015)

### **The Metal Powder Company Limited-AAC Unit,**

A-10, Sipcot Industrial Park, Thervoykandigai,

Gummidipoondi Taluk, Thiruvallur District-601202

Mob: 76049 56662, 76049 56664; e-mail: info@mepcrete.co.in

**Product manufacturing:** A fully automated & India's highest production capacity (300000 m<sup>3</sup> / annum) plant for producing Mepcrete Aerated Autoclaved Concrete Lightweight Blocks.

### **Important customers:**

Surface coating sector customers in the field of manufacturing Aerosols, Anti-corrosive Coatings, Automotive Coatings, Can & Coil Coatings, Chrome-effect Coatings, Coloring of Plastic Materials, Conductive coatings, Flexographic Printing Inks, Gravure Printing Inks, Hammertone Coatings, Heat- resistant Coatings, Marine Coatings, Master Batches, Metallic-effect Paints, Offset Printing Inks, Paper Coatings, Plastic coatings, Powder Coatings, Roof Coatings, Screen Printing Inks, Textile Printings applications etc;

Fireworks sector customers in the field of manufacturing Aerial shots, Color Matches, Light & Heavy Sound Crackers, Sparklers, Fancy fireworks, Safety Matches etc;

Industrial Explosives sector customers in the field of manufacturing Mining explosives, Slurry explosives

applications etc.

Industrial sector customers in the field of manufacturing Abrasives, Aerated Light weight Concrete Blocks & Panels, Adhesives, Automobile parts, Biocides, Brake Linings, Brazing, Catalysts, Ceramics, Chemicals, Contact materials, Diamond Tools, Defense materials, Electricals & Electronics, Exothermic Sleeves, Ferro Alloys, Foundry Fluxes, Friction Materials, Lubricants, Ordnance materials, Pesticides, Pharmaceuticals, Powder Metallurgy, Propellants, Refractories, Sandwich Bottom Kitchenware, Sintering, Soldering, Solid Propellant Fuels for Missiles & Rockets, Thermit Welding, Welding Electrodes applications etc;

### **Our Regular Exports To (Since 1988)**

Australia, Africa, China, Europe, Far East, Latin America, Middle East, U.S.A.- over 45 countries;

Our exports exceed 30% of the total turnover and the company has been accorded the status of a "Star Export House". Mepco has its reputation by achieving several National Awards for export merit and import substitution

### **Quality Management System (since 1998)**

Quality system of Mepco & Mepco group of companies have been certified by M/s DNV-Netherlands to ISO 9001: 2015 Quality Management System Standard.



## ACHIEVEMENTS & AWARDS

1974	National State Safely Award	2003	Renewal of Recognition of In-house R & D unit
1975	Import Substitution Award for Leafing Aluminium Powder	2003-2004	Capexil's Export Merit Award
1976	Recognition of R & D Laboratory by Ministry of Science and Technology, Govt. of India	2004	ISO 9001: 2000 Recertification
1976	State Safely Award	2004-2005	Capexil's Export Merit Award
1977	Invention Award For Gold Bronze Powder	2005-2006	Capexil's Export Merit Award
1977-1978	Capexil's Export Merit Award	2006	Renewal of Recognition of In-house R & D unit
1978-1979	Capexil's Export Merit Award	2006	ISO 9001 : 2000 Recertification
1979	Renewal of Recognition of In-house R & D unit	2007-2008	Special Export Award
1979-1980	Capexil's Export Merit Award	2009	Renewal of Recognition of In-house R & D unit
1982	Renewal of Recognition of In-house R & D unit	2009	ISO 9001-2008 Recertification
1982	Invention Award For Red Phosphorus	2009-2010	Special Export Award
1985	Renewal of Recognition of In-house R & D unit	2010-2011	Certificate of Merit for Export
1987-1988	Invention Award For Magnesium Powder	2011-2012	Special Export Award
1987-1988	Capexil's Export Merit Award	2012	Renewal of Recognition of In-house R & D unit
1988	Renewal of Recognition of In-house R & D unit	2012	ISO 9001-2008 Recertification; Best Energy Conservator Award from TANGEDCO
1990-1991	Capexil's Export Merit Award	2012-2013	Capexil's Special Export Award
1991	State Export Award (By The Director of Industries & Commerce, Tamil Nadu)	2013-2014	Capexil's Special Export Award
1991	Renewal of Recognition of In-house R & D unit	2014-2015	Capexil's Special Export Award
1994	Renewal of Recognition of In-house R & D unit	2015	Renewal of Recognition of In-house R & D unit
1995-1996	Capexil's Export Merit Award	2015	ISO 9001-2008 Recertification; ISO 9001 Certification of NALCO unit
1996	State Safety Award	2015-2016	Capexil's Special Export Award
1996-1997	Capexil's Export Merit Award	2016	ISO 9001 Certification of MSP unit
1997	State Safety Award	2016-2017	Capexil's Export Merit Award
1997	Renewal of Recognition of In-house R & D unit	2016-2017	State Safety Award from Directorate of Industrial Safety & Health(DISH)
1997-1998	Capexil's Export Merit Award	2018	State Safety Award from National Safety Council (NSC)
1998	ISO 9002: 1994 Certification	2018	Renewal of Recognition of In-house R & D unit
1998	State Safety Award	2019	ISO 9001: 2015 Certification; Best Renewable Energy Award from TECA
1998-1999	Capexil's Export Merit Award	2020	Best Renewable Energy Award from TECA
1999-2000	Capexil's Export Merit Award	2020	NABL Certificate of Accreditation for The Metal Powder Company Limited-Quality Assurance Lab
2000	Renewal of Recognition of In-house R & D unit	2020	State Safety Award
2000-2001	Capexil's Export Merit Award	2021	ISO 9001: 2015 Recertification
2001	ISO 9002: 1994 Recertification	2021, 2023	Renewal of Recognition of In-house R & D unit
2001-2002	Capexil's Export Merit Award	2022, 2024	Renewal of NABL Certificate of Accreditation
2002	Export House Recognition		
2002-2003	Capexil's Export Merit Award		

## APPLICATIONS

Description of Icons / Symbols that represent the characteristic Applications of our Products:

1		Aerated Light weight concrete plasters	17		Industrial coatings
2		Aerosols, DIY	18		Lubricants
3		Anti-corrosive coatings & Heat-resistant coatings	19		Marine paints
4		Automotive & Accessories coatings	20		Mining explosives
5		Can coatings	21		Offset Printing inks
6		Chemical applications	22		Paper coatings
7		Chrome effect / Decoration & Reflective coatings	23		Powder coatings
8		Coil coatings	24		Powder Metallurgy Sintering material
9		Coloring Plastic materials & Master batches	25		Roof coatings
10		Contact materials	26		Screen printings
11		Dusting	27		Soldering & Brazing
12		Fireworks	28		Technical Plastic compounds
13		Flexographic Printing inks	29		Textile coatings
14		Friction & Brake linings	30		Textile printings
15		Gravure Printing inks	31		Thermit welding of railway lines
16		Hammertone finish coatings			

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## ALUMINIUM PASTE - LEAFING, Special Grades: SILVOSHEEN series

Parameters	Wet Sieve	NVM	Leafing Power	Water Covering Capacity	Particle Size	Solvent	Application
	>45µm (% max)	(% min)	(% min)	(cm <sup>2</sup> /gmin)	D (50%) ( µm typical)		
Test method	(ISO-1247 )				(Malvern-3000)		
SSH 15	0.5	65	80	25000	15	MT	          
SSH 07	0.1	65	75	50000	7	MT	          

#### Wet sieving with mineral spirit as rinsing liquid

### Wet sieving

Solvent combination / selection as per the requirement of customer as:

MT - Mineral Turpentine / Mineral Spirit :

NA - MT+Solvent Naphtha:

TO - MT+Toluene:

TO - MT+Yulene



## ALUMINIUM PASTE - LEAFING, Special Grades: ACTABRITE Series

ACTABRITE is premiere category leafing Aluminium pastes, having superior water-coverage and generate splendidly shining effect.

Trademark	Solids % min	Min % Passes through		D50 (µm)	Leafing Power (% min)
		Sieve Size (µm)	Spec %		
AB 6000	75	- 63	75.0	58±5	75
AB 2000-1	65	- 45	95.0	22±2	75
AB 1500	65	- 45	98.5	15±1	75
AB 1000	65	- 45	99.0	11±1	70

## ALUMINIUM PASTE - LEAFING, Water borne: ECO SHEEN series

ECOSHEEN, ECOMEDIUM & NEERAL are environmental friendly products designed to suit waterborne paints and inks. Though these products contain necessary passivating chemicals, care must be taken during formulation because of precarious nature of finely divided Aluminium in presence of water.

Parameters	Solids (% min)	Wet Sieve		Particle Size D (50%) ( $\mu\text{m}$ )	Carrier	Application
		< 63 $\mu\text{m}$ (% min)	< 45 $\mu\text{m}$ (% min)			
Test method	(ISO-1247)			(Malvern-3000)		
Trade mark						
ESH 15	65	--	99.8	12 typical	Proprietary solvent	      
EM 1015	65	--	99.0	11 $\pm$ 1	Proprietary solvent	      
NEERAL 6035	97	85.0	--	58 $\pm$ 5	Proprietary solvent	      

Wet sieving with mineral spirit / water as rinsing liquid  
Shape: Flake



## ALUMINIUM PASTE-NON LEAFING, Special Grades : SS series

Parameters	Wet Sieve >45 $\mu\text{m}$ (%)	NVM (% min)	Leafing Property	Particle Size D (50%) ( $\mu\text{m}$ )	Solvent	Application
Test method	(ISO-1247)			(Malvern-3000)		
Trade mark						
SS 77	0.5 - 1.0	65	Nil	12 - 14	MT+XY	  
SS 99	0.5 max	65	Nil	10 - 12	MT+XY	  

Wet sieving with mineral spirit as rinsing liquid  
Shape: Flake

MT – Mineral Turpentine / Mineral Spirit.  
XY-Xylene



## ALUMINIUM PASTE - NON LEAFING, Special Grades: SILVOLUX series

Parameters	Wet Sieve >45µm (% max)	NVM (% min)	Leafing Property	Particle Size D (50%) ( µm typical )	Solvent	Application
Test method	(ISO-1247)			(Malvern - 3000)		
Trade mark	SLX 20	0.5	65	Nil	22	MT
	SLX 16	1.0	65	Nil	16	MT
	SLX 10	0.1	65	Nil	10	MT

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake

**Solvent combination / selection as per the requirement of customer as:**

MT - Mineral Turpentine / Mineral Spirit,;

NA - MT+Solvent Naphtha;

TO - MT+Toluene;

XY - MT+Xylene

## ALUMINIUM PASTE - NON LEAFING, Special Grades: MIRROLUX series

Parameters	Wet Sieve >45µm (% max)	NVM (% min)	Leafing Property	Particle Size D (50%) ( µm typical )	Solvent	Application
Test method	(ISO-1247)			(Malvern - 3000)		
Trade mark	MLX 20	0.5	65	Nil	22	MT
	MLX 10	0.1	65	Nil	10	MT

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake

**Solvent combination / selection as per the requirement of customer as:**

MT - Mineral Turpentine / Mineral Spirit,;

NA - MT+Solvent Naphtha;

TO - MT+Toluene;

XY - MT+Xylene



## ALUMINIUM PASTE - NON LEAFING, Special Grade: ASTROLUX Series

ASTROLUX grades typically formulated in High-aromatic Mineral Spirit for good dispersion, are new range of non-leafing products having coin type geometry with roundish edge and highly polished surfaces. These grades of pigments of well controlled particle size are highly desirable for high-end paint applications such as. automotive, electronic appliances, cosmetics etc where very clean sparkling bright aesthetics are required.

Trademark	Solids (% min)	D50 ( $\mu\text{m}$ )	Wet Sieve		Solvent
			< 63 $\mu\text{m}$ (% min)	< 45 $\mu\text{m}$ (% min)	
A1123	65	12 $\pm$ 1	--	99	High Aromatic Mineral Spirit
A7170	65	17 $\pm$ 1	--	99	
A5252	68	25 $\pm$ 1	--	99	
A5405	70	36 $\pm$ 2	--	97	
A5505	75	48 $\pm$ 2	98	--	
A5505-1	78	48 $\pm$ 2	98	--	Xylene



## ALUMINIUM PASTE - NON LEAFING, Special Grades : SILVER PREMIER Series

SILVER PREMIER grades typically formulated in High-aromatic Mineral Spirit for good dispersion, are non-leafing Aluminium pastes of semi-cornflake configurations with modest irregularity in particle shapes and edges. Because of controlled particle sizes, these grades provide higher sparkling appearance and higher surface coverage even with relatively larger particle size. These grades are highly desirable for automotive refinishes, decorative coatings, screen printing and other various industrial coatings.

Trademark	Solids (% min)	D50 ( $\mu\text{m}$ )	Wet Sieve		Solvent
			< 63 $\mu\text{m}$ (% min)	< 45 $\mu\text{m}$ (% min)	
SP101	65	10 $\pm$ 1	--	99	
SP141	65	14 $\pm$ 1	--	99	
SP102	65	19 $\pm$ 2	--	99	
SP103	70	28 $\pm$ 2	--	98	
SP104	70	38 $\pm$ 3	--	95	
SP106	70	55 $\pm$ 5	80	--	



## ALUMINIUM POWDER - LEAFING, Special Grades : SS series

Parameters	Wet Sieve		VM (% max)	Leafing Power (% min)	Water Covering Capacity ( $\text{cm}^2/\text{g min}$ )	Particle Size D (50%) ( $\mu\text{m}$ )	Application	
	>150 $\mu\text{m}$ (%)	>45 $\mu\text{m}$ (%)						
Test method	(ISO-1247 )						(Malvern - 3000)	
Trade mark	SS 40	3 max	55 – 65	1	65	3000	80 - 90	
	SS 60	1 max	35 – 45	1	65	4000	50 - 60	

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake

## ALUMINIUM POWDER - LEAFING, Special Grades : LP SHEEN series

Parameters	Wet Sieve >45 µm (% max)	VM (% max)	Leafing Power (% min)	Water Covering Capacity (cm <sup>2</sup> /gmin)	Particle Size D (50%) (µm typical)	Application	
Test method	(ISO-1247 )						
Trade mark					(Malvern - 3000)		
LPSH 15	0.2	1	80	19000	12		

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake

## ALUMINIUM POWDER - NON LEAFING, Special Grades : FLITTER Series

Parameters	Wet Sieve >45µm (%)	VM (% max)	Leafing Property	Particle Size D (50%) ( µm )	Application		
Test method	(ISO-1247 )						
Trade mark				(Malvern - 3000)			
FF 33	80 – 95	1	Nil	90 - 110			
FF 55	50 – 70	1	Nil	50 – 70			

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake



## ALUMINIUM POWDER - NON LEAFING, Special Grades : GLITTER GLAMOUR Series

**GLITTER GLAMOUR** grades are coarse range Aluminium powder in non-leafing powder category for safe handing with less dust. They have very bright and polished appearance and are specially designed for powder coatings, plastic Master batches, Cosmetics, Textile Printing, etc.

Trademark	Type	Solids (% min)	D50 ( $\mu\text{m}$ )
PSP107	NL	99	85 $\pm$ 10
PSP133N	NL	99	135 $\pm$ 15

## ALUMINIUM PELLETS - LEAFING & NON LEAFING, Special Grades: SILPLUX Series

**SILPLUX** grades with postfix 'P' are in pelletized form for dust free applications, the grades with postfix 'M' are in semi paste form with paraffin Oil. **SILPLUX** are designed mainly to provide metallic looks to the molded plastic bodies, light reflection to remote sensing, corrosion protection to create vapor barriers, improving wear and tear properties of plastic body etc. **SILPLUX** provides not only natural silver color but also varies sparkling effects with different colour pigments.

Trademark	Type	D50 ( $\mu\text{m}$ )	Type of carrier	% carrier (max)
315-80-P	L	10 $\pm$ 1	Poly Ethylene WAX	25
210-80-P	L	13 $\pm$ 2	Poly Ethylene WAX	25
315-90-M	L	10 $\pm$ 1	Paraffin Oil	10
315-80-M	L	10 $\pm$ 1	Paraffin Oil	20
315-65-M	L	12 $\pm$ 1	Paraffin Oil	38
720-90-M	NL	85 $\pm$ 10	Paraffin Oil	15



## CUPROUS OXIDE POWDER: (Red)

Parameters	Wet Sieve >63 µm (%)	Moisture (%)	Cuprous oxide content (%)	Application
Test method	(ASTM D -185)	(ASTM D -280)	(Volumetry)	
Trade mark				
CO1	0.5 max	0.5 max	96 min	 

Wet sieving with mineral spirit as rinsing liquid

Shape: Crystalline



## GOLD BRONZE POWDER: Standard Grades

Parameters				Type	Wet Sieve			Leafing power (%)	Water Covering Capacity (cm²/g)	Particle size D (50%) ( μm)	Application	
<150 μm (%)	< 45 μm (%)	< 25 μm (%)										
Test method Trade mark					(ISO-1247)				(Malvern-3000)			
Pale Gold	Rich Pale Gold	Rich Gold	Copper Gold									
A00	B00			Sparkle	80 min	40 min	10 min	10 min	1500 min	55 typical		
A0	B0	C0		Brilliant	90 min	60 min	20 min	15 min	1700 min	40 – 50		
			O1	Dusting	95 min	70 min	30 min	20 min	1500 min	30 – 40		
A1	B1	C1		Dusting	95 min	80 min	40 min	20 min	2000 min	32 – 39		
A11				Brilliant Dusting	99.5 min	95 min	60 min	20 min	2700 min	31 typical		
			O2	Lac	99.5 min	85 min	55 min	30 min	1700 min	21 – 29		
A2	B2	C2		Lac	99.5 min	90 min	65 min	30 min	2500 min	21 – 30		
			O4	Lining	99.9 min	95 min	75 min	40 min	2000 min	15 – 20		

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake

Gold Bronze is an alloy of > 99.99 % high pure Copper & Zinc (Brass) and the color depends upon its composition (Reddish to Greenish Yellow).

It is available in Pale Gold, Rich Pale Gold, Rich Gold, Copper Gold and other special shades.



## GOLD BRONZE POWDER: Standard Grades

Parameters				Type	Wet Sieve			Leafing Power (%)	Water Covering Capacity (cm²/g)	Particle size D (50%) (μm)	Application
<150 μm (%)	<45 μm (%)	<25 μm (%)									
Test method Trade mark					(ISO-1247)				(Malvern-3000)		
Pale Gold	Rich Pale Gold	Rich Gold	Copper Gold								
A3	B3	C3		Super Lac	99.9 min	97 min	85 min	40 min	3500min	15 – 20	
A33	B33	C33		Brilliant Super Lac	99.9 min	99 min	96 min	50 min	4250min	11 – 14	
A44	B44	C44		Brilliant Lining	100	99.5 min	98 min	60 min	5000min	9.0 – 10.5	
A4	B4	C4		Lining	100	99.9 min	99 min	60 min	6000min	7.0 – 8.5	
A5				Super Lining	100	100	99.5 min	60 min	8000min	4.0 – 6.5	
	B5			Super Lining	100	100	99.5 min	60 min	9000min	4.0 – 6.5	
		C5		Super Lining	100	100	99.5 min	60 min	7000min	4.0 – 6.5	
	B6			Super Ink Lining	100	100	99.9 min	65 min	11000min	2.5 – 3.5	

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake

Gold Bronze is an alloy of > 99.99 % high pure Copper & Zinc (Brass) and the color depends upon its composition (Reddish to Greenish Yellow).

It is available in Pale Gold, Rich Pale Gold, Rich Gold, Copper Gold and other special shades.



## GOLD BRONZE POWDER: Special Grades

Parameters		Type	Wet Sieve			Water Covering Capacity	Particle size	Application
			<150 µm (%)	<45 µm (%)	<25 µm (%)	(cm <sup>2</sup> /g )	D (50%) ( µm)	
Trade mark	Test method		(ISO-1247)				(Malvern-3000)	
D9	Deep Gold	Special	95 min	85 min	55 min	2000min	25 - 45	
F9	Fire Red	Special	95 min	85 min	55 min	2000min	25 - 45	
E9	Emerald Green	Special	95 min	85 min	55 min	-	-	

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake

## GOLD BRONZE POWDER: New Grades: (new grades developed by upgraded technology)

Parameters	Wet Sieve			Leafing Power	Water Covering Capacity (cm <sup>2</sup> /g )	Particle size D (50%) ( µm)	Application
	<150 µm (%)	<45 µm (%)	<25 µm (%)				
Trade mark	(ISO-1247)				(Malvern-3000)		
Pale Gold 45	98 min	80 min	40 min	60 min	2800 min	42 - 48	
Pale Gold 36	99 min	85 min	60 min	65 min	3300 min	33 - 39	
Pale Gold 18	99.8 min	98.5 min	90 min	65 min	5000 min	18 - 24	
Pale Gold 9	100	99.5 min	98 min	70 min	9000 min	7 - 13	

Wet sieving with mineral spirit as rinsing liquid

Shape: Flake

### Handling & Storage:

Keep the tins in cool and dry place as supplied. Partially used container should be closed immediately to avoid contamination of pigments from heat, cold, humidity & chemical fumes; Gold bronze powders are used for decorative interior applications only; Bright metallic finishes are obtained with coarser grade and smooth metallic finishes are obtained with finer grade of gold bronze powder; The article to be bronzed must be clean, dry and free from grease and acidity; Proper selection of medium is very important; The synthetic resin, oil & alkyd vehicles, etc., used must be neutral, free from moisture, acidity & alkalinity; To prepare paint, first mix the powder with the thinner and then add the medium; Mix the powder and the liquid just before applications. Never store in paint form.

## Gold Bronze Powder - Further New Special Grades

New Special Grades	D50 ( $\mu\text{m}$ approx)	Remarkable characteristics
A3 -S	20	Greenish red gold powder for decorative coating
A3 -RS	20	Rich reddish gold powder for decorative coating
O4 -S	20	Special Reddish copper gold powder by means of controlled process control agent meet industrial lubricant making application.
B6-S	3	Rich pale gold ultrafine powder for an enhanced functionality, brilliance, coverage and hiding powder to meet unique printing ink applications.

## Gold Bronze Paste

New Grades	D50 ( $\mu\text{m}$ approx)	Carrier (% max)	Remarkable characteristics
O4M	20	15	Reddish Copper Gold semi paste form based on paraffin oil carrier for environ-friendly dust-free coating & printing ink applications.
O6M	10	15	Reddish Copper Gold semi paste form based on paraffin oil carrier for environ-friendly dust-free coating & printing ink applications.
B5M	5	15	Rich Pale Gold semi paste form based on paraffin oil carrier for environ-friendly dust-free coating & printing ink applications.



## Gold Bronze Waterborne Paste

to meet global concerns over the environmental pollutions and the emissions from hydrocarbon solvents / VOCs, some of new waterborne leafing Gold bronze pigment pastes & leafing Aluminium pigment paste have been developed by pasted 10- 15 % of a proprietary solvent of water dispersible neutral carrier to provide an enhanced stability & brightness of our products in aqueous formulated mixtures suitable for environment-friendly coating and also in Fireworks Sparkler coating application in various golden & silver aesthetic shades with out losing its shade, quality and performance.

New Grades	D50 ( $\mu\text{m}$ approx)	Carrier (% approx)	Remarkable characteristics
EBR 120	20	15	Pale Gold, medium fine, waterborne leafing Gold bronze pigment paste, suitable for environment-friendly coating in waterborne aerosol, decorative coatings, paints, screen printings & textile coatings and also in aesthetic pale golden decorative coatings over Fireworks Sparklers.
EBR 207	5	15	Rich Pale Gold, superfine, waterborne leafing Gold bronze pigment paste, suitable for environment-friendly coating in waterborne paints and inks. Due to leafing & high coverage it can provide strong and brilliant metallic effects in printing inks and also in aesthetic rich pale golden decorative coatings over Fireworks Sparklers.
EBR 320	20	15	Rich Gold, medium fine, waterborne leafing Gold bronze pigment paste, suitable for environment-friendly coating in waterborne aerosol, decorative coatings, paints, screen printings & textile coatings and also in aesthetic rich golden decorative coatings over Fireworks Sparklers.
EBR 425	20	15	Copper Gold, medium fine, waterborne leafing Gold bronze pigment paste, suitable for environment-friendly coating in waterborne aerosol, decorative coatings, paints, screen printings & textile coatings and also in aesthetic reddish golden decorative coatings over Fireworks Sparklers.
EBR D30	35	15	Deep Gold, bright, waterborne Gold bronze pigment paste, suitable for environment-friendly coating in waterborne decorative coatings, paints, screen printing, textile coatings, and also in aesthetic deep golden decorative coatings over Fireworks Sparklers.
EBR E30	35	15	Emerald Green, bright, waterborne Gold bronze pigment paste, suitable for environment-friendly coating in waterborne decorative coatings, paints, screen printing, textile coatings and also in aesthetic emerald green golden decorative coatings over Fireworks Sparklers.
EBR F30	35	15	Fire Red, bright, Waterborne Gold bronze pigment paste, suitable for environment-friendly coating in waterborne decorative coatings, paints, screen printing, textile coatings and also in aesthetic fire reddish golden decorative coatings over Fireworks Sparklers.
EAL 60	60	15	Silver gold, sparkling, Waterborne aluminium pigment paste, suitable for environment-friendly coating in waterborne decorative coatings, paints, screen printing, textile coatings and in aesthetic silver gold decorative coatings over Fireworks Sparklers.

## RED PHOSPHORUS POWDER:

Parameters	Wet Sieve			AD (g/cc)	5 % aq. extract		Moisture (%)	WSM (%)	White Phosphorus (%)	Red Phosphorus (%)	Iron (%)	Magnesium (%)	Application						
	>53 µm (%)	>45 µm (%)	>25 µm (%)		pH	Acidity (%)													
Test method	(ASTM D -185)			(ASTM B-417)	(IS-2012)							(AAS)							
Trade mark																			
RP-I (300 mesh)	6 max	—	20- 25	0.50- 0.70	6.5- 8.5	0.1 max	0.2 max	1.5 max	0.025 max	97.5 min	0.15 max	0.70 max							
RP-I (500 mesh)	--	1 max	5 max	0.50- 0.70	6.5- 8.5	0.1 max	0.2 max	1.5 max	0.025max	97.5 min	0.15 max	0.70 max							

Wet sieving with water as rinsing liquid, brushing to aid the sieving.

Shape: Granular

WSM: Water soluble matter

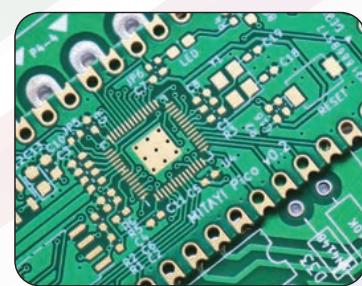
AAS: Atomic Absorption Spectrophotometer

## SILVER POWDER: (Flakes)

Parameters	Wet Sieve		AD (g/cc)	Average Particle size (by FSSS) ( µm)	Water Covering Capacity (cm <sup>2</sup> /g)	Matter soluble in organic solvent (%)	Silver (%)	Application			
	>75 µm (%)	>45 µm (%)									
Test method	(ISO-1247)		(ASTM B-417)	(ASTM B-330)	(ISO-1247)						
Trade mark											
SP-2	0.1 max	2 max	0.9 – 1.5	1.0 max	4000 min	1.5 max	98 min				

Wet sieving with mineral spirit as rinsing liquid.

Shape: Flake



## ZINC DUST POWDER:

Parameters	Dry Sieve			Average Particle size (by FSSS) ( μm )	Chemical analysis		Application	
	>75 μm (%)	>45 μm (%)	<45 μm (%)		Metallic Zinc (%)	Total Zinc (%)		
Test method	(ASTM B-214)			(ASTM B-330)	(ISO-3549)			
Trade mark								
FINE-12	1 max	5 max	Balance	12.0 – 18.0	97 min	98.5 min	   	

The sieve value of each sieve is the retention after passing through its previous sieve.

Shape: Air Atomized Irregular

Manufactured out of High grade Zinc metal

## ZINC PASTE:

Parameters	Wet Sieve > 45 μm (%)	Volatile Matter (%)	Particle Size D (50%) ( μm )	Solvent	Application
Test method	(ASTM D-185)	(ISO-1247)	(MALVERN 3000/ 2000)		
Trade mark	ZT 7512	10 max	30 max	14 – 20	MT  
	ZP15	3 max	15 max	13 – 17	MT  

Wet sieving with mineral spirit as rinsing liquid, brushing to aid the sieving

Shape: Flake

MT- Mineral Turpentine / Mineral Spirit

## ZINC FLAKE POWDER:

Parameters	Wet Sieve < 45 μm (%)	Non Volatile Matter (%)	Particle Size D (50%) ( μm )	Application
Test method	(ASTM D-185)	(ISO-1247)	(MALVERN 3000/ 2000)	
Trade mark	F-7512	96 min	99.5 min	20 typical  
	ZF15	95 min	99 min	10-16  

Wet sieving with mineral spirit as rinsing liquid, brushing to aid the sieving



Flake

## SIEVE TABLE :

Standard Aperture Size	ISO / IS µm	BSS (British Sieve No.)	ASTM (American Sieve No.)	Standard Aperture Size	ISO / IS µm	BSS (British Sieve No.)	ASTM (American Sieve No.)
3.350 mm	3350	5	6	0.300 mm	300	52	50
2.800 mm	2800	6	7	0.250 mm	250	60	60
2.360 mm	2360	7	8	0.212 mm	212	72	70
2.000 mm	2000	8	10	0.180 mm	180	85	80
1.700 mm	1700	10	12	0.150 mm	150	100	100
1.400 mm	1400	12	14	0.125 mm	125	120	120
1.180 mm	1180	14	16	0.106 mm	106	150	140
1.000 mm	1000	16	18	0.090 mm	90	170	170
0.850 mm	850	18	20	0.075 mm	75	200	200
0.710 mm	710	22	25	0.063 mm	63	240	230
0.600 mm	600	25	30	0.053 mm	53	300	270
0.500 mm	500	30	35	0.045 mm	45	350	325
0.425 mm	425	36	40	0.037 mm	38	400	400
0.355 mm	355	44	45	0.025 mm	25	500	500

### Note on Particle size measurement by Malvern -2000:

The particle size measurement is based on laser diffraction granulometry.

The typical value of measurement is not standardized.

Apart from hardware and software of laser granulometer, the test results are dependent on dispersion method, device, medium, time and energy.

### Handling & Storage instruction of products:

- Keep the packing containers closed airtight and away from direct sunlight, rainwater and excessive dampness.
- Store indoors in a cool and dry place with adequate ventilation.
- Never keep the drum in open condition after partial usage to avoid evaporation of solvents in pastes and to avoid contamination of pigments from heat, cold, humidity, moisture & chemical fumes.
- Consumption of the product at once when drum is opened, gives better results.
- If long term storage is necessary, ensure the product is stored with an airtight seal.
- Pigments should be handled with out dust formation.
- Handling devices should be dry and clean.
- Avoid any sources of sparks, ignition and naked flame.
- Consumption of the paste & pigment with in 6 months can give better results.
- After prolonged storage, the pigment may become dry and darken due to humidity and other contaminations; if this happens, the pigment should be retested before use to avoid unnecessary problems.
- Proper selection of binder/resin with low acid value, solvent & additives is important to achieve maximum performance.
- During paint manufacturing, avoid moisture contamination & high speed stirring.
- Separation of solvent may occur as a result of vibration or impacts during transport & variation in temperature; such separation does not represent any deterioration in the quality of aluminium paste; thoroughly mix the paste to obtain a uniform dispersion before use.
- Refer MSDS for further information in our website: [www.mepco.co.in](http://www.mepco.co.in)

## OUR COMMITMENT TO CLIMATE

### Overview

MEPCO has 5 manufacturing facilities, and we are committed to operating these facilities in a sustainable way to minimize their impact on the environment, by reducing energy, water and resource use, pollution.

This policy demonstrates the company's dedication to Mitigate its environmental impact and contributing to global efforts to combat climate change by installing solar panels, wind mills and Planted more than 60,000 trees.





## OUR SALES DEPOTS

### **SIVAKASI SALES DEPOT:**

(Registered Office)  
The Metal Powder Company Limited,  
113, Velayutham Road,  
Sivakasi-626 123.  
Phone: 04562 – 220428 / 223686  
Mob: 98438 62150  
e-mail: sivakasi@mepco.co.in

### **CHENNAI SALES DEPOT (AAC Block):**

The Metal Powder Company Limited,  
26-27, Poonamallee High Road,  
Periamet, Chennai-600 003.  
Phone: 044 – 25610398  
Mob: 9047017643  
e-mail: chennai@mepco.co.in

### **MUMBAI SALES DEPOT:**

The Metal Powder Company Limited,  
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118 / 122, Kazi Syed Street,  
Mandvi, Mumbai-400 003.  
Phone: 022 – 23444120 / 23400989  
e-mail: mumbai@mepco.co.in

### **Warehouse:**

Pritesh Complex, Aadinath Goods,  
Storage & Transit, Building  
No: B-13, Gala No: 13 & 14, Val Village,  
Anjur – Dapoda Road,  
Bhiwandi-421305  
Maharastra

### **DELHI SALES DEPOT:**

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New Delhi-110 041  
Mob: 93609 63023  
e-mail: delhi@mepco.co.in

### **KOLKATA SALES DEPOT:**

The Metal Powder Company Limited,  
Shriram Warehousing Compound,  
Mouza-Chamrail,  
NH-6, P.S-Liluah,  
(Near Chamrail Indian Oil Petrol Pump)  
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