



A group of creatives that specializes in manufacturing Atomized Aluminium powder.

Let's Talk

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**Komal A
tomizer P
vt. Ltd.**



An Atomized Aluminium Powder
Manufacturer

OurPromise

Atomized Aluminium Powder is a product that is very niche. We promise to create the finest aluminium powder with finest quality of aluminium ingots. Also we will deliver the Atomized Aluminium Powder in the given timeline with great customer satisfaction.

MissionStatement

Komal Atomizer is committed to a growth strategy that will enhance every aspect of our business. We will continue to earn the respect and opportunity from our customers through integrity, innovation and a passion to provide world class service.



Our Products

Our Atomized Aluminum Powders, which are produced through atomizing process, have granules and fine particles with narrow particle size distribution. Besides high qualities, the safety equipment for preventing explosion which is attached to our Plant production line enables us to supply powders consistently to our customer in various fields.

We create the best Atomized Aluminium Powder by applying ISO 9001:2008 Quality Management System.

Core Values

- Customer Service
- Finest Quality
- Integrity in Customer Relations
- Responsibility towards customer satisfaction
- Accountability towards customer requirement

Quality policy

We at Komal Atomizer Pvt. Ltd are committed to enhanced total customer satisfaction by providing unmatched product quality and timely delivery with profitability to both customers as well as organisation.

History of Komal

KOMAL was established in the year 1987 for the purpose of manufacturing Atomized Aluminium Powders. Since then the company has taken the lead in this field as one of the top manufacturers in India.

In the year 1995 aiming further leap we constructed specialized factory for to manufacture Aluminium Paste (All Grades). Now the annual production capacity of Atomized Aluminium Powder is 2400 M.T.

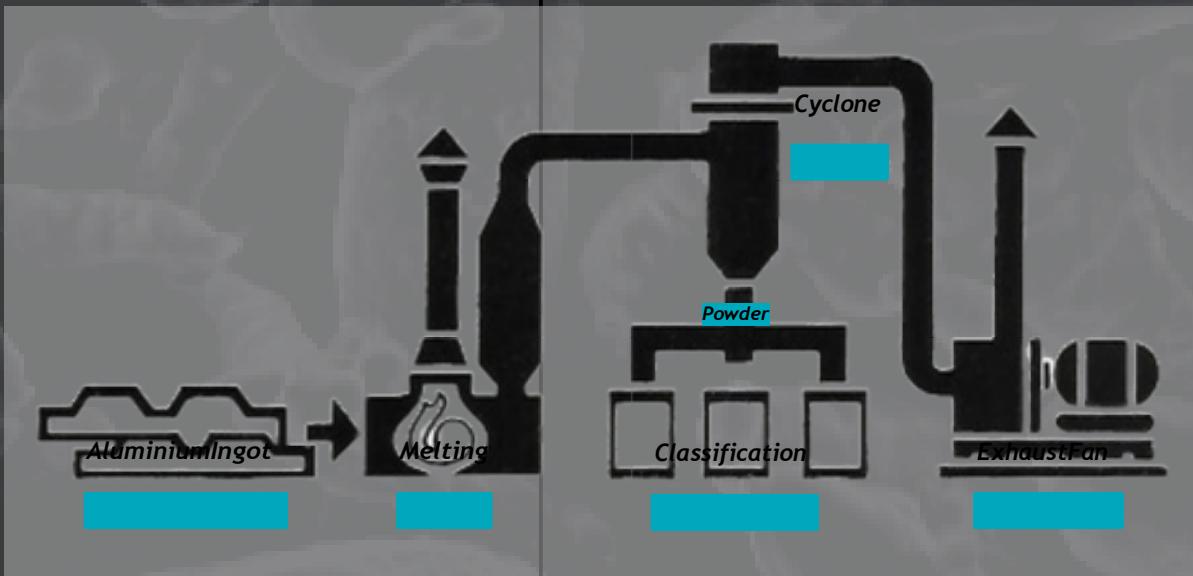
The Company is going for another expansion to manufacture of Special Grade Aluminium Powder, Lightweight Concrete Grade. We maintain consistency in the quality and compatibility of our products is off far greater value to us than the expediency of higher sales. We look forward to your suggestions and critical analysis of our products to improve upon these and serve you better.

What is Atomization

The conversion of Aluminium ingots by melting and atomizing it into fine powder is known as Atomized Aluminium Powder. Atomized Aluminium powder results from melting and thereafter spray drying (freezing) aluminium into small individual particles using a compressed gas to draw the metal through a nozzle.

The most important property of aluminium powder to undergo a vigorous exothermic reaction when it gets oxidized finds application in pyrotechnic process. aluminium powder is used as a deoxidant and exothermic tapping compounds to increase the yield of casting.

Production Process



Atomized Aluminium is produced by blasting the stream of molten Aluminium into small particles by air jet. Atomised Aluminium is produced by blasting the stream of molten Aluminium into small particles by air jet. For this purpose, a atomiser is used which consists of a straight tube with lower end dipped in molten metal and upper end terminating as a small orifice.

SIEVETABLE

Parameters

ParticleSize-DrySieve

Application

	+60 mesh (%)	+60 mesh (%)	+60 mesh (%)	+60 mesh (%)	+60 mesh (%)	+60 mesh (%)	
TestTableTrade							
Mark							
APK-10	80max	20min	--	--	--	--	Mining Explosives
APK-20	20max	80min	--	--	--	--	Mining Explosives, Thermal Weldings
APK-30	--	90min	--	--	60min	10min	Mining Explosives, Thermal Weldings, Powder Metallurgy, Friction & brak Linings, Fire Works
APK-40	--	--	50min	--	--	30min	Mining Explosives, Thermal Weldings, Powder Metallurgy, Friction & brak Linings, Fire Works
APK-50	--	--	90min	--	--	40min	Mining Explosives, Thermal Weldings, Chemical applications, Fire Works
APK-60	--	--	--	50min	--	40 min	Mining Explosives, Thermal Weldings, Chemical applications, Fire Works
APK-70	--	--	--	90min	--	70 min	Mining Explosives, Powder Metallurgy, Chemical application
APK-80	--	--	--	--	30min	70min	Mining Explosives, Thermal Weldings, Powder Metallurgy, Friction & brak Linings, Fire Works, Technical Plastic Compounds, Soldering, Chemical application
APK-90					60min	80min	Mining Explosives, Thermal Weldings, Powder Metallurgy, Friction & brak Linings, Fire Works
APK-100					90min	95min	Mining Explosives, Thermal Weldings, Powder Metallurgy, Friction & brak Linings, Fire Works

The above grades we can supply from Aluminium purity - 94 to 99.7%.

- The sieve value of each sieve is the retention after passing through its previous sieve. The shape is irregular corn flake.
- Coarse grades are used in Brake linings, Chemical reactions, Diamond-resin wheels, Ferro alloys, Foundry fluxes, Mining explosives Sintering, Thermite welding applications etc
- Fine grades are used in Aluminium pigments, Automobile parts, Brake linings, Chemicals, Deoxidizer, Diamond tools, Exothermic reaction in steel plant, Fireworks applications (for making Fountains/Bright silver sparklers/Bright-lights silver effect aerial shots), Foundry fluxes, Missiles solid fuels, Ordnance, Plastic products, Powder metallurgy, Refractory bricks, Sintering, Slurry explosives, Thermite welding, Welding electrodes application etc., Coldsoldering, Epoxy & Vinyl adhesives, Titanium dioxide purification applications etc.

Standard Size	ISI Sieve No.	British Sieve BSS	ASTM (American) Sieve No.
3.35mm	340	5	6
2.80mm	280	6	7
2.36mm	240	7	8
2.00mm	200	8	10
1.70mm	170	10	12
1.40mm	140	12	14
1.18mm	120	14	16
1.00mm	100	16	18
850 microns	85	18	20
710 microns	70	22	25
600 microns	60	25	30
500 microns	50	30	35
425 microns	40	36	40
355 microns	35	44	45
300 microns	30	52	50
250 microns	25	60	60
212 microns	20	72	70
180 microns	18	85	80
150 microns	15	100	100
125 microns	12	120	120
106 microns	10	150	140
90 microns	9	170	170
75 microns	-	200	200
63 microns	8	240	230
53 microns	6	300	270
45 microns	-	350	325
37 microns	-	400	400

Cellular Concrete Grade

Definition: Lightweight concrete aluminium powder:

Our leaf-shaped aluminium powders and pastes are used in the construction industry for producing aerated concrete. Porous or lightweight concrete is created by the reaction of aluminium powder in aqueous-alkaline solutions; the concrete mass is thus foamed and innumerable small bubbles or pores formed.

The pores give this type of concrete several extremely useful characteristics: the material is light, yet it has a high degree of hardness. It is easy to handle and is remarkable for its unsurpassed thermal insulation properties. It would be hard to imagine today's low-cost prefabrication method for commercial and private buildings without aerated concrete.

Cellular Concrete Aluminum Powder Specification

Characteristics

Uses

Atomized aluminum powder is a ubiquitous material in industry. Broad industries where atomized aluminum powder is used include:

- Aluminium Pigment Production
- Mining and Drilling explosives
- Rocket Propulsion
- Additive Manufacturing
- Brazing
- Refractory for steel and cement plants
- Rocket fuel
- Oilfield Drilling

Aluminium powder is generally required in the chemical Industry where reactions are required as well as in products designed to carry electrical currents. It is also consumed in metallurgy processes where press and sinter parts are limited to light weight

- Coarse: Brake linings, ferro alloys, thermite welding, explosives, sintering applications, chemical reactions and in diamond resin wheel production
- Fine and SuperFine: As deoxidizer, slurry explosives, exothermic mixtures in steel plant chemicals and raw material for aluminium paste and pyrotechnic powder manufacturer
- Dust: Slurry explosives, defense application, cold solders, titanium dioxide, aluminium compounds and fireworks applications.

Storage and Handling



Product should be kept dry. Avoid generating dust. Prohibit smoking. Storage rooms must be of fire-resistant construction. Do not store powder in same room as other combustible materials.



Precautions for Safe Handling:

- Close containers carefully after use. Maintain good housekeeping to avoid causing dust and deposit of dust.
- Keep away from sources of ignition. No smoking.
- Use intrinsically safe equipment and non-sparking tools. Protect against electrostatic charges (e.g. use full metal shovels).
- Whilst refilling connect containers with earthing clamps.

Conditions for safe storage including any incompatibilities:

Store in cold dry place in non-combustible containers (original containers preferred). Do not store with oxidising agents, other combustible materials, acids or alkalis. Store away from steam pipes, radiators or other sources of heat or moisture.

Company Slogan

We are truly invested in understanding our clients' needs and working with them to deliver high quality solutions, whilst continuously reviewing and improving the way we work.

Our Achievements

