



Case Study:

Process Improvement for A Client in Object Metalizing.

About Us:



Mr. Anshuman Punj
CEO, Supervac Industries

Supervac™ offers a complete range of Vacuum Pump Oils (Rotary, Diffusion and Booster), Evaporation Boats, High vacuum silicone grease, Boron Nitride Powder & Suspension and Graphite foil & Suspension.

Very large scale production, patented processes and a very long service life makes Supervac™ products extremely cost effective.

Highlights:

- ▶ 20+ Years in Business
- ▶ 95% India Market Footprint
- ▶ Client Base in 35+ Countries worldwide.
- ▶ Best Price Guarantee.
- ▶ High Quality, Quick Delivery.

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ABOUT CLIENT:

India's No. 1 Car Lamp Manufacturer



A Company who enjoys no.1 position in object metalizing in India and accounts for over 60% market share in the Indian Automobile Lighting Business; specializing in manufacturing car head lamp reflectors, Supplying to top car makers like Honda, Ford, Tata, Renault, Suzuki & Many More.



CHALLENGE:

Removing Excess Aluminum from Vacuum Chamber Floor



During metalizing, excess aluminium tends to fall down and sticks to the vacuum chamber floor. For the sake of removal of this stuck aluminium the Company had devised a method which consisted of metal plates being screwed to the chamber floor.

Periodically, these metal plates were unscrewed and dipped in sodium hydroxide (NaOH) bath where it reacted with aluminium and dissolved it. In the meantime, fresh metal plates were screwed at the bottom of the chamber for the next process run and so on. This method for the removal of excess aluminium costs company precious time, money and space; not to mention the hazardous process involving caustic soda. The Company approached **Supervac** for a smarter solution to their problem



SOLUTION:

Supervac manufactures SV-BNS (Boron Nitride Suspension) and SV-GS (Graphite Suspension). Both are excellent water-based release agents devoid of any solvents; hence do not interfere with the vacuum in any way. These were suggested to the Company.

For testing purposes, SV-BNS was chosen by them. In the trial, a coat of SV-BNS was applied to the metal plates at the bottom of the chamber, before the start of the process. After the run was over, on opening the vacuum chamber, all that was required was – wipe off the excess aluminium from the metal plates with a wet cloth. That's it! No more screwing and unscrewing of the metal plates, no more caustic soda baths and no more wastage of precious time and money.



Image : Supervac Boron Nitride Suspension (SV-BNS)



Result:

Supervac's SV-BNS not only improved the process of metalizing auto lamps saving into quality man hours & extra screws and plates but also helped in improving the total hourly output by 5% . So the company not only saved onto time and money but also improved the top line.

**5% Improvement
in total hourly
output from
metalizing
vacuum chambers.**



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Let us Know if you are having any questions regarding Our products, supply, delivery or brochure requests.

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