



ALOKIT THERMAL SERVICE PVT. LTD.
(AN ISO 9001 CERTIFIED COMPANY)



Our Achievements

- 🏆 TSA + TSZ : 1,00,000 Sq.m+
- 🏆 MG Cylinder + Dryer Cylinder : 300+
- 🏆 Boiler Tubes Coating : 10,000 Sq.m+
- 🏆 Haste Alloy + SS + Inconel : 10,000 Sq.m+
- 🏆 Turbine Runner : 1000 Sq.m+



ATSPL BASIC PROFILE



Welcome to the M/s. Alokit Thermal Service Pvt. Ltd. – Ahmedabad number one source for the thermal spraying and coating services.

We are dedicated to give you the best services of thermal spray coatings and complete solutions with advance and adopting new technology with a viewing of focusing on main three characteristics as dependability, customer satisfaction and uniqueness.

Our cutting-edge Thermal Spray Coating and industrial painting services are designed to reduce maintenance costs and significantly extend the lifespan of your assets. With a wealth of experience, we have successfully collaborated with numerous companies spanning diverse industries, including oil & gas, cement, power plants, refineries, steel, chemical & fertilizer, manufacturing, hydro power, pulp & paper, aviation, and more. Initially the Firm is founded as ASE in 2006 and Alloy Thermal Spray Pvt. Ltd. in 2015.

When the firm started out, our passion for providing the best services with affordable price, without harming environment drove to do intense research and gave them the impetus to turn hard work and inspiration into to a booming well facilitated workshop in Ahmedabad – Gujarat, India. Company name promoted as Alokit Thermal Service Pvt. Ltd.



VISION

To become leaders in Thermal Spray Coating services in whole world.



MISSION

To provide Thermal Spray Coating Services in whole around the World for enhance service life of components.

OUR SERVICES

Thermal Spray Process

- ◆ HVOF
- ◆ Twin Wire Arc
- ◆ Flame Wire
- ◆ Flame Powder

Plants and Facilities

- ◆ HP/HVOF
- ◆ Wire Arc
- ◆ Plasma
- ◆ Flame Spray

Coating Jobs

- ◆ Hydro Power Plant
- ◆ Thermal Power Plant
- ◆ Steam Turbine
- ◆ Gas Turbine Runner
- ◆ Cement
- ◆ Printing & Paper
- ◆ Chemical/ Fertilizer
- ◆ Steel

Insulation & Painting Service

- ◆ Mig-Welding
- ◆ Welding
- ◆ Stick Welding
- ◆ Tig Welding

Fabrication

- ◆ All Refinery
- ◆ Steel Industries
- ◆ Power Plant
- ◆ Chemical

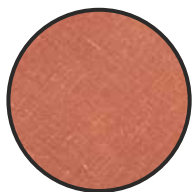
Hard Facing

- ◆ PTA
- ◆ Laser Cladding
- ◆ All types of Cladding

MATERIAL WE USE



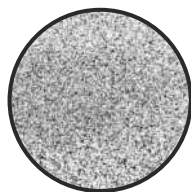
STAINLESS
STEEL



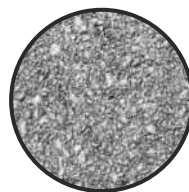
COPPER



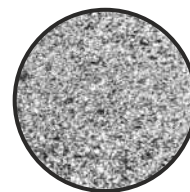
BRONZE



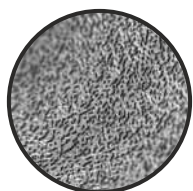
MOLYBDENUM



NICKEL
ALLOYS



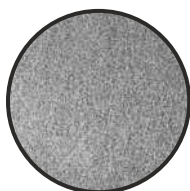
HASTE
ALLOYS



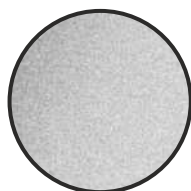
TUNGSTEN
CARBIDE ALLOYS



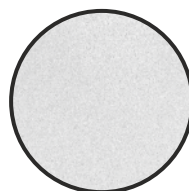
TITANIUM
ALLOYS



MONEL



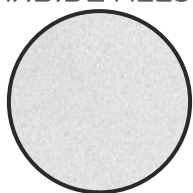
INCONEL



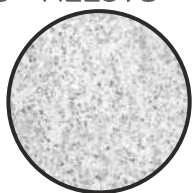
ALUMINUM



ZINC



WHITE
METAL



CERAMIC

INDUSTRY WE SERVE

Power Generators



Protect hydrocarbon processing equipment from corrosion and wear, even at high temperatures:

Hydro: Francis & Pelton Turbine runner, Guide vane blades, Rotor vanes

Thermal: boiler tube, screen tube, burner wall, exhaust Fan etc., Coal Fired, Industrial power generation etc.

Steel Industries



Protect machinery used in metal processing from high temperatures and wear in both hot and cold rolling operations:

Tension and Steering rolls, Cleaning Section rolls, Furnaces roll's, nozzle & elbow, Continuous galvanizing rolls i.e. Sink rolls, stabilizer roll, Entry-Exit temper mill components, Pinion gear box, bearing general etc.

Automotive & Aviations



Protect components against oxidation, hot gas corrosion, erosion, and wear:

Aero engine's Turbine blade & vane, Landing Gears, Engine, Suspension & Steering, Transmission etc.

Oil & Gas



ATSPL offer wear coatings for various corrosive environments, decrease drill string trips, as well as, barrier and sacrificial corrosion control coatings for pipelines and offshore applications. Pipe, Rise, Pump, Valve, Hulls, Platforms, Storage tank, Offshore components etc.

INDUSTRY WE SERVE

Pulp & Paper



ATSPL offer surface solutions to meet the challenges of pulp and paper production. Corrosion coatings on pulp digesters, and wear-control covering with controlled surface textures for paper machinery such as:

Calendar and embossing rolls, doctor blades, drying cylinder, MG roll components.

Chemical & Refinery



Protect against wear resistance, abrasion resistance, erosion, hot corrosion etc.

Pump components, gate valve, ball valve, hydraulic rods, sucker rods, centrifugal pump, slurry pumps, Casing and Impeller, chimney tower, reactor, DG chimney etc.

Other / General Industries



Protection of sugar mill roll, metal processing, cements, printing, textiles, agriculture, electronics, construction, mining, rail, tooling etc components from wear, abrasion, erosion resistance, corrosion Pump housing, electric motor body, bearing, shaft, sleeves, wear rings, farm blade, tractor components, aluminum casting for copper coating, plastic injection molding machine Screw etc.



COATING PROCESS

HVOF



FEATURES

- ◆ High density (Low Porosity <1%), High bond strength (>10000 psi).
- ◆ Coating thickness, Smooth sprayed Surface (3-5µmRa).
- ◆ Optimum hardness and corrosion resistance.
- ◆ Improved toughness and excellent wear resistance.
- ◆ Beneficial residual stress and fine surface finishes.
- ◆ Reduce oxide content than plasma coating.
- ◆ Improved performance, life and efficiency.

APPLICATION

- ◆ Landing Gear, Calender Rolls, Kaplan Blades, Francis & Pelton Turbine Runner, Steam Turbine, Guide Vane Blade, Casing and Impeller.

Twin Wire Arc Spray



FEATURES

- ◆ Over-current protection
- ◆ Air driven pull system
- ◆ Air cooled or solid cables
- ◆ Easy to maintain, lower cost, onsite service.
- ◆ Uses wires from 1.60, 2.00, 3.17, 4.73 mm dia. without changing.
- ◆ Feed rollers Choice of coating textures.
- ◆ Optional Arc beam spray concentrator.

APPLICATION

- ◆ Engineering coatings, Reclamation parts.
- ◆ Bearing and seal surfaces, Printing rollers.
- ◆ Anti-spark coatings.
- ◆ Wear coatings : Boiler tube, screen tube, burner wall.
- ◆ Large anti-corrosion applications for offshore industries components, construction, Railway Bridge, pipeline, spool, structures etc.

COATING PROCESS

Flame Wire Spray



**Pure Copper Coating
by Flame Spray Process**

FEATURES

- ◆ Wire sizes 3.15mm to suit many application and coating requirements, Variable wire speed control.
- ◆ Suitable for Engineering wires, steels, copper and bronzes plus anti-corrosion materials.
- ◆ Larger areas to be sprayed efficiently.
- ◆ Free standing wall control panel with safety shut-off valve.
- ◆ Use such fuel only i.e. Oxygen, Nitrogen, Acetylene, LPG.
- ◆ Conductive coating applications.

APPLICATION

- ◆ Reclamation parts for roller and shaft, Wear coatings, and Molybdenum.
- ◆ Non-ferrous: Copper, Bronze coating
- ◆ Fine coatings with low heat input.

Flame Powder Spray



**Powderjet-85
Flame Powder
Spray Gun**

FEATURES

- ◆ High deposit efficiency, Dense coatings.
- ◆ Sprays ceramics and metals powder materials.
- ◆ Simple to use, Suitable for spray/fuse coatings.
- ◆ Optional remote powder feeder.
- ◆ Cost effective.

APPLICATION

- ◆ Small engineering repairs, Spray/fused coatings, Shaft reclamation.
- ◆ Self fluxing alloys for extreme wear applications.
- ◆ Glass mould plungers, Steel mill table rolls.



COATING APPLICATION



TSA (THERMAL SPRAY ALUMINUM) COATING

(ATSPL is PDO Approved in Thermal Spray Coating)

DESCRIPTION

- ◆ Thermal spray aluminum coating services by high-velocity twin wire arc spray process.
- ◆ We provide TSA Application to PDO, KNPC's, ONGC, EIL Dangote PETROFAC, Godrej, ISGEC, VTV Engineering, Anup Engineering components and more..

ADVANTAGES

- ◆ Anti-corrosion application of offshore Industrial components.
- ◆ 99.5% Pure Aluminium wire used for coating (ISO 209 Grade 1100)
- ◆ TSA coating follow by Shell specification and DEP practice.

APPLICATION

- ◆ Spool piping and flanges, Structure, Cellar Deck structure & Platform, Vessel tanks, RABH MODEL - Bag House etc.
- ◆ ATSPL have been covered > 100000 Sq.m in TSA and Zinc spray coating.



TUNGSTEN CARBIDE COATING

DESCRIPTION

- ◆ Tungsten carbide coating by HP-HVOF process. We provide to hydro power plant components for wear and hot corrosion resistance.

COATING APPLICATION

ADVANTAGES

- ◆ Protect from wear and abrasion resistance by using special ultra fine sintered carbide base powder from standard manufacturer.
- ◆ 88WC12Co, WC10Co4Cr, Cr3C2/NiCr, 85 WC10Ni5Cr, Hastelloy C276, Nickel base Alloys.
- ◆ Higher Density, Bonding Strength, Optimum Hardness (1250 VHN_{0.3}).
- ◆ In house, Onsite, Reduce oxide content, Time of repairing, improve surface life.

APPLICATION

- ◆ Turbine runner component, Francis & Pelton Runner, Guide Vanes & Blades, Hard facing, Rebuilding wear resistance.
- ◆ Crack Shaft, Sink Roll, Hydraulic piston rod, Sleeves & Plunger, Compressor piston rod etc.
- ◆ ATSPL have been covered > 900Sq.m in carbide coating.



BOILER TUBE COATING

DESCRIPTION

- ◆ Boiler tube coating by high velocity twin wire arc spray process in thermal power plant application. We provide this facility in pan India.

ADVANTAGES

- ◆ Preservation of water wall thickness.
- ◆ Recoating is possible once the coating has become depleted in service.
- ◆ Worn tubes with a minimum wall thickness can be coated.
- ◆ Anti-adhesive coating properties reduce the build-up of deposits on water walls and simplify their removal.
- ◆ Significantly reduced boiler tube cracking or other failures that can cause unplanned downtime.

APPLICATION

- ◆ Coatings undertaken on CFBC, PF, AFBC & Recovery Boilers.
- ◆ Exhaust fans, pump components, coal-fired boilers, super-heaters, economizer water walls, boiler tubes, boiler installations, Screen tube and Coal burner wall of tube.
- ◆ ATSPL have been covered > 2200 Sq.m in boiler tube coating from different power plant in pan India.

COATING APPLICATION



PAPER MILL ROLL COATING AND GRINDING

DESCRIPTION

- ◆ Machining, Coating, Grinding and super polishing of Paper mill roll components.

ADVANTAGES & APPLICATION

- ◆ Problem of reduce size of paper mill roll by high wear and abrasion.
- ◆ Pre-machining of roll and Max coating thickness apply by twin wire arc spray process.
- ◆ Nickel bond coat applying for higher bonding strength and hard SS coating for maintain size of roll.
- ◆ Fine grinding and super polishing by diamond wheel grinding and belt polishing.
- ◆ Achieving size of roll and super surface finish on roll.
- ◆ Providing warranty for coating bonding strength.
- ◆ Applicable on site at client workshop.
- ◆ ATSPL have been completed >165Nos of paper mill rolls, MG & Dryers coating and grinding in pan India.



SUGAR MILL ROLL COATING

DESCRIPTION

- ◆ Hard SS coating of sugar mill roll component.

ADVANTAGES & APPLICATION

- ◆ Problem of sugar mill roll erosion and wear due to continues processing.
- ◆ For better solution to maintain threads and shape by hard SS coating.
- ◆ Machining and cutting lining to be done.
- ◆ Nickel rod welding/overlapping to maintain thread and diameter.
- ◆ Hard SS coating to be done by Twin wire arc spray coating.
- ◆ Getting proper and even shape of sugar mill roll for better service life.
- ◆ ATSPL have been completed >75 Nos of sugar mill and Cement Plant's rolls in pan India.

COATING APPLICATION



DESCRIPTION

- ◆ By twin wire arc spray coating and repairing of steel plant component i.e. pinion gear box, furnace elbow etc..

STEEL PLANT COMPONENT COATING

ADVANTAGES & APPLICATION

- ◆ Repairing of pinion gear box, furnace elbow on site by high velocity twin wire arc spray coating services.
- ◆ Coating of sink roll, hearth roll, table roll for protection against hot corrosion and erosion, Furnace elbow, pinion gear box, hot roll groove roll etc.
- ◆ ATSPL have been covered >480 Sq.m of Steel Plant components coatings.

COPPER & BRONZE COATING



DESCRIPTION

- ◆ Copper and Bronze coating by flame wire spray process for application of electric conductivity.

ADVANTAGES & APPLICATION

- ◆ Flame wire spray using with fuel at applicable onsite and in-house also.
- ◆ High spray rates with low gas consumption, Non ferrous coating applications.
- ◆ Copper coating on shaft with fine polishing., Good surface finish with require RA value.
- ◆ ATSPL have been completed >40 Nos of copper-bronze coating of components.

SS COATING OF VESSEL & TANK



DESCRIPTION

- ◆ Basically SS316, SS316L, SS coatings requirement in refinery, oil & chemical plants, Fertilizer and thermal power plant etc..

ADVANTAGES & APPLICATION

- ◆ ATSPL provide S5316, SS316L, SS coatings of vessel, tank, chimney, KV Valve, Elbow, Reactor inside-outside of components for high temp Corrosion resistance.
- ◆ ATSPL have been covered > 4000 Sq.m of SS coating of components.

OUR GLOBAL PRESENCE



OUR PREVIOUS COMPANY CLIENTS



ALOKIT THERMAL SERVICE PVT. LTD.

(AN ISO 9001 CERTIFIED COMPANY)

Office and work

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Surface Modification Better With Alok Thermal Service Pvt Ltd