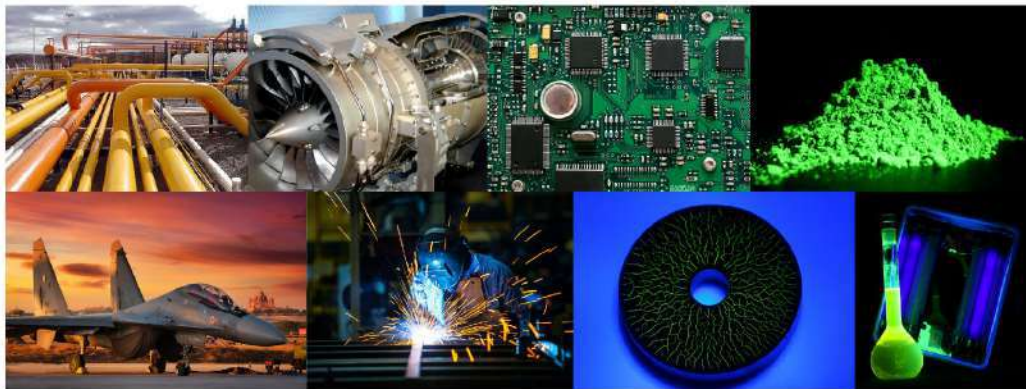




ABOUT US

The Oriental Chemical Works Private Limited, is an ISO 9001-2015 certified Company that was established in 1934 by the eminent astrophysicist and former MP Prof. Megnad Saha and his younger brother Dr. (Capt.) K.L. Saha.

In 1962 the Company started the manufacturing and marketing of Non Destructive Testing (NDT) and Specialty Maintenance products under a foreign Technical Collaboration agreement with the brand name ARDROX.

In 1973 with the expiry of the TC, the Company started its own indigenous production under the brand name ORION.

The Oriental Chemical Works Private Limited provides state-of-the-art technology, infrastructure of modern plants, sophisticated facilities and years of experience and expertise in this hi-tech field. Our products conform to relevant specifications such as ASTM, ASME, AMS, BIS and other major International & Indian specifications.

ORION is a name that has earned wide industrial acceptance and loyalty in the NDT and Specialty Cleaning Compounds categories and is available throughout the length and breadth of the country. The Company supplies to the Indian Aviation and Aerospace Industry, Major Defense Production and Research & Development Units, Heavy and Light Engineering Industries, Automobile ancillaries, Marine & Naval vessels, Off-Shore Oil exploration, Railways, Nuclear and Thermal Super Power Generation Units, Steel Mills and host of other core engineering based Industries.

All this adds up to high-performance, reliable and need-specific products for our customers, a goal to which we are committed.

For more details please contact us at:

THE ORIENTAL CHEMICAL WORKS (P) LTD

1/1B, Gobinda Auddy Road, Chetla, Kolkata - 700 027, India

Tel: 7439618424 / 79802 20020 • Website: www.orionndt.com

E-mail: orionndt1934@gmail.com/salesinfo@orionndt.com



NON DESTRUCTIVE TESTING PRODUCTS

VISIBLE DYE PENTRANTS

**ORION 119 SERIES (NPC APPROVED)/ORION 115 SERIES/
ORION 106 SERIES**

FEATURES:

- Visible Penetrants : Type II, Method A & C- Bright Red mobile liquid with low surface tension and excellent capillary action
- Penetrant Remover : Solvent based, volatile liquid that cleans and removes grease, dirt and excess penetrant from the surface
- Developers: Non-aqueous based volatile liquid suspension containing ultra-fine white particles, providing a smooth uniform white contrast on the surface that draws out the penetrant on to the surface for easy detection of flaws. The white contrast background sharpens and aids the red indications of the defects for inspection
- Quickly and accurately locates surface defects which otherwise is not visible to the naked eye. Conforms to Sensitivity levels of 20, 30 & 50 micron as mentioned in all major specifications
- Non-corrosive to metals and their alloys
- Non toxic
- Extremely high area coverage with a high contrast level

APPLICATIONS:

Aerospace, Nuclear Power Plants, Thermal Power Plants, Railways, Defence production & Engineering plants etc for inspection of - Special alloy Forgings & Castings, Weldments Tanks, Pipes, Non-ferrous materials for aerospace, Carbide Tips and Tools, Non-metallic material etc.

ORION 115P
RED DYE PENETRANT
Type II, Method A & C

Conforms to:
ASME B & PV Code Sec. V, 2019
ASTM E - 165; ASTM E - 1417
AMS - 2644; ISO - 3452 - 1-2-3
IS - 3658 - 1999; IS - 12889 - 2010
RDSO : M&CNDT/105/2001

ORION 115PR
SOLVENT PENETRANT REMOVER
Type : Class-2

Conforms to:
ASME B & PV Code Sec. V, 2019
ASTM E - 165; ASTM E - 1417
AMS - 2644; ISO 3452 - 1-2-3
IS - 3658 - 1999; IS : 12889 - 2010
RDSO : M&CNDT/105/2001

ORION 115D
NON-AQUEOUS DEVELOPER
Type I & II, form 'd' & 'e'

Conforms to:
ASME B & PV Code Sec. V, 2019
ASTM E - 165; ASTM E - 1417
AMS - 2644; ISO 3452 - 1-2-3
IS - 3658 - 1999; IS : 12889 - 2010
RDSO : M&CNDT/105/2001

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ORION

NON DESTRUCTIVE TESTING PRODUCTS

FLUORESCENT PENETRANTS

ORION 23FP/ ORION 23FP(HS)/ORION 23 FP2/ORION 23 FP3

TYPE I, METHOD A

Medium to High Sensitivity Pre-emulsified (water washable)
Fluorescent Dye Penetrant

FEATURES:

- Locates flaws, cracks and leaks. To be used with ORION 28D2 Developer Powder in a dark room with the a suitable UV-A Black Light of min 1200 $\mu\text{w}/\text{cm}^2$
- Excellent water washable characteristics and exceptionally good Penetrant removable properties
- Low background fluorescence on finished components. Available in sensitivity levels of 20 & 10 microns.
- Can be removed with either water, or by solvent removers
- Low fire hazard
- Extremely low contents of impurities. Non-corrosive to ferrous and non-ferrous alloys. Extremely reliable and highly recommended for Nuclear and Aerospace Industry application

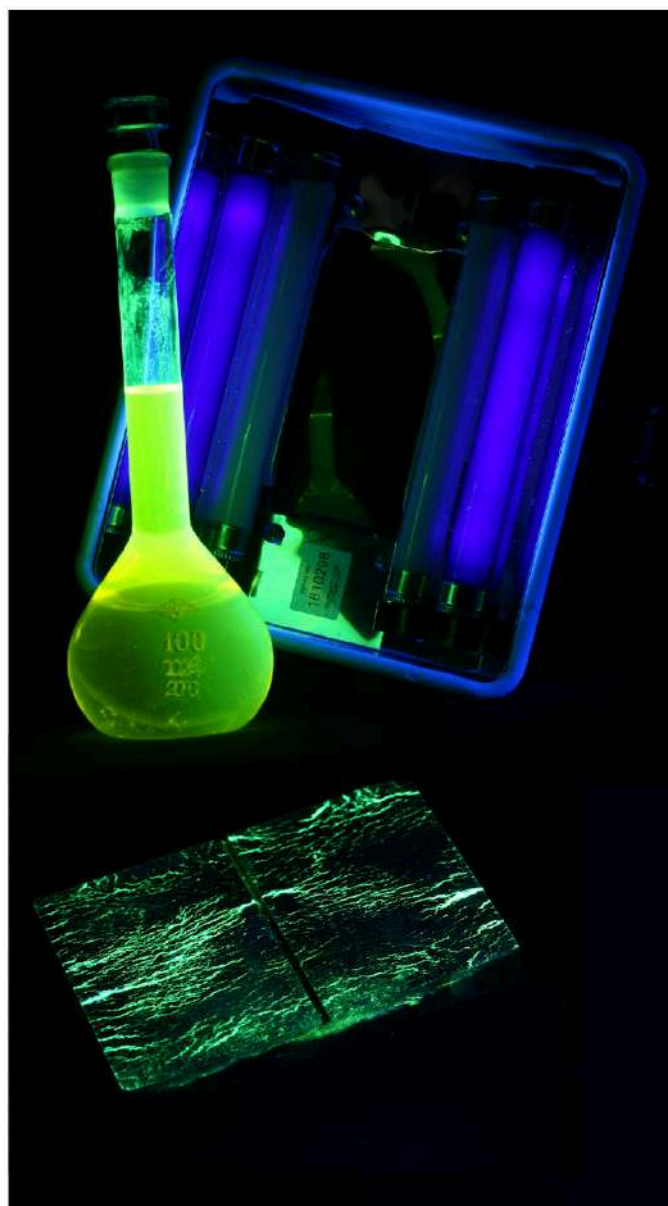
ORION 24PE/ ORION 24PE2/ORION 24PE3

TYPE I, METHOD B & D

Medium to High Sensitivity Post-emulsified Fluorescent
Dye Penetrant

FEATURES:

- Locates flaws, cracks and leaks to be used with ORION 28D2 Developer Powder in a dark room with the a suitable UV-A Black Light of min 1200 $\mu\text{w}/\text{cm}^2$
- Removed with either ORION 201PR (Lipophilic) or ORION 26PR (Hydrophilic) emulsifiers followed by water rinsing or by solvent removers
- Low background fluorescence on finished components. Available in all sensitivity levels from 20 & 10 microns.
- Low fire hazard
- Extremely low contents of impurities. Non-corrosive to ferrous and non-ferrous alloys. Extremely reliable and highly recommended for Nuclear and Aerospace Industry application



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MAGNETIC PARTICLE INSPECTION

VISIBLE MAGNETIC PARTICLES

ORION 60BA & ORION WCP-61

FEATURES:

60BA - Black magnetic Particles in solvent conforming to RDSO/ M&C NDT/ 109, 2007/(Rev-02), October 2020

- Designed to be used in white light inspection for revealing defects on ferromagnetic components.
- Available in aerosol cans of 400 ml.

WCP-61 - White Contrast paint conforming to BS 5044:73 & BS 6072:81

- Adds high contrast and increases visibility & reliability by almost 10 times
- Uniform white coating to form a deep contrast against visible black magnetic particles.
- Black and white colour combination brings out highest contrast on surface, ideal for easy inspection
- Available in aerosol cans of 400 ml.

APPLICATIONS:

Pipe Lines, Fabricated Structures, Heavy Duty Plated Fabrication, Structural Columns and In-situ Automobile and Locomotive parts.



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MAGNETIC PARTICLE INSPECTION

FLUORESCENT MAGNETIC PARTICLES

ORION 600 F

(Wet Method, Oil based)

ORION 601 FW

(Wet Method, Water based)

ORION 600 F (Wet Method, Oil based), ORION 601 FW (Wet Method, Water based) formulated with imported particles are available conforming fully to Specifications AMS 3044, ASTM E 709 & ASTM E 1444

ORION 601-FW
WATER BASED FLUORESCENT
MAGNETIC PARTICLE CONCENTRATE

Batch	Date / Mfd.	Date / Exp.

Mixing Ratio: 10.5 gms-11.25 gms / litre of water

Non-Hazardous Made in India

The Oriental Chemical Works (P) Ltd.
1/1B, Gobinda Auddy Road, Chetla, Kolkata - 700 027, INDIA
Tel : +91-33-2479-9385, 2479-6428
Fax : +91-33-2479-6723
E-mail : orientalchemical_hol@vsnl.net
Website : www.orionndt.com

ORION 600-F
FLUORESCENT MAGNETIC
PARTICLE CONCENTRATE

Batch	Date / Mfd.	Date / Exp.

Mixing Ratio : 0.75 - 1.25 gms. / litre of oil

Non-Hazardous Made in India

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Fax : +91-33-2479-6723
E-mail : orientalchemical_hol@vsnl.net
Website : www.orionndt.com

NET CONTENT: 1 Kg.

MRP : Rs. (inclusive of all taxes)

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SPECIALTY MAINTENANCE CHEMICALS

ORION 77

FEATURES:

RDSO Approved Heavy Duty Electrical Safety Cleaning Solvent for Locomotive Maintenance

- Specially designed safety solvent for insulated parts with controlled evaporation rate.
- Strong organic compound for removal of organic deposits and contaminations from insulated assembled rotating machines.
- Cleaning of Heavy Electrical Rotating Components like Traction Motors, Generators and Alternators, H.T. & L.T. Motors, Auxiliary Motors for blowers and various types of Cables, HT Insulators and Mechanical parts.
- Contains special ingredients and electrical properties to ensure high degree of cleaning and compatibility with all systems with high flash point.
- Avoids problems of complete removal, thereby saving on labour and down time cost.



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ORION

SPECIALTY MAINTENANCE CHEMICALS

ORION 770 / ORION 712

FEATURES:

770 - Printed Circuit Board and General purpose Contact Cleaner for electronic gadgets

- Specially designed high purity flammable solvent for off-line use. Fast evaporation with no residue.
- Cleans PCBs solder and contact points in situ or in dismantled condition, IC, PCB panels, small transformers and switchgears.
- Safe to use on Acrylate, Cellulose Acetate or Perspex and other types of low quality plastics.
- Easily removes water, light carbon deposits, oil and grease from components.
- Efficient and convenient cleaning of exteriors of electronic appliances, glass and glass apparatus, plastic sheet and removal of ink marks. Safe on painted surface.
- CFC free and does not contain any ODS and therefore environmentally safe.

712 - Electrical & Mechanical Contact Cleaner

- Specially designed safety solvent for small motors, self-starters, dynamo etc.
- Heavy duty cleaning and de-watering of electrical and mechanical rotating components in situ. Moderate evaporation with no residue at room temperatures.
- Easily removes light carbon deposits and soot, oil and grease from insulated parts without damage. Restores insulation value after cleaning.
- It possesses high penetrating power and is used for loosening nuts and bolts.
- Specially designed for metallic contacts, panels and switchgears, small motors, windings, magnet frames, bearings, pipes, brake drums shoes and discs, fuel injector nozzles, sparking plugs, distributors & battery terminals etc.

ORION 770
Extra Pure Solvent Cleaner
FOR ELECTRONIC COMPONENTS AND PRINTED CIRCUIT BOARDS

ORION 712
Multipurpose Solvent Cleaner
FOR ELECTRICAL & MECHANICAL APPLIANCES

EXCELLENT SAFETY CLEANER FOR ELECTRICAL LT & HT MOTORS, ALTERNATORS, RELAYS, BUS BARS, INSULATORS & ANTENNAS. LOOSENS & RELEASES FROZEN NUTS & BOLTS. CLEANS STICKY SURFACES FROM ROTATING COMPONENTS. DRIVES OUT MOISTURE & LIGHT CARBON. CLEANS & PROTECT FROM LIGHT RUST.

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ORION

SPECIALTY MAINTENANCE CHEMICALS

ORION 355/ ORION 331R/ ORION 310/ ORION 510

FEATURES:

355/331R - Heavy Duty Alkaline Cleaners for FERROUS components

- Designed for use as a steam cleaner for removal of heavy dirt from ferrous surfaces
- Immersion type paint stripper for ferrous components and is very effective on air-dried paints.
- Aqueous based cleaner for precision moulds for the rubber, glass and textile industries.
- Heavy duty alkaline cleaner (eg. used in dairy equipment)
- Used for removing hard carbon, rust, oil, and grease from hard surfaces of IC ENGINE components by immersion, ultrasonic cleaner and high pressure industrial washing machines.



FEATURES:

310 - Rust, Heat Scale and Corrosion Remover

- Removes of heat treatment scales and rust from steel parts
- Removes white corrosion from Aluminium surface
- Removes hard water scale from boiler / radiator/ heat exchanger tubes
- Removes water scales from radiators or heat - exchanger

FEATURES:

510 - Concentrate Solvent Emulsifier and General Purpose Cleaner

- Heavy duty cleaning of aircraft components such as landing gears, APU lube oil coolers, locomotive electrical rotating machines, and various mechanical engine components.
- Can be used as primary or as a pre-cleaner
- Does not harm painted surfaces, metallic coatings or organic polymeric coatings and varnishes electrical insulating materials.
- Washes off with water jet to obtain a clean surface.



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ORION

SPECIALTY MAINTENANCE CHEMICALS

ORION 86/ ORION 87/ ORION 516

FEATURES:

ORION 86 : Application Type Paint Strippers for Aircraft Application

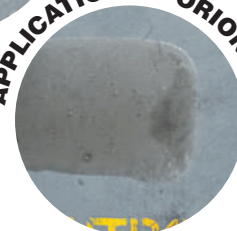
- Type approved vide document NO.CRE (N)/ L-13/307, for aircraft application
- Viscous gel type product that can be applied with a brush or spray on the external surface of the aircraft prior to repainting
- Highly effective paint stripper for removal of air-dried, semi-baked and baked epoxy paints from metal surfaces and aerospace components
- Does not affect Aluminum, Magnesium, Steel, Brass and Copper
- Approved for use on other critical Engineering Components



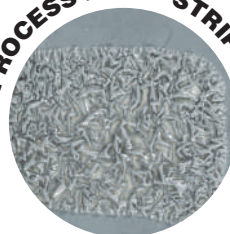
PRIOR TO PAINT STRIPPING



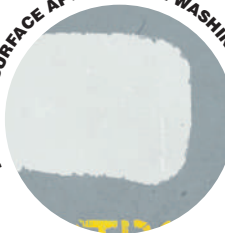
APPLICATION OF ORION 86



IN PROCESS PAINT STRIPPING



FINISHED SURFACE AFTER WATER WASHING AND DRYING



ORION 516 : Liquid Immersion Type Carbon and Paint Coating Removal Compound

- Developed for the removal of burnt - out carbon, oil sludge, grease, dirt and paint etc., for internal combustion as well as aero engine components during maintenance and overhaul
- Effective stripper, when used in a bath for a wide variety of organic finishes such as air dried paint, epoxy paint, lacquer, varnishes etc.
- Designed to operate as a hot soak cleaner, when rapid cleaning is required for mild contamination
- Recommended for application in the Aircraft and Aero Engine Components, Automotive, Locomotive and Marine industries





ORION

SPECIALTY MAINTENANCE CHEMICALS

ORION 33/ ORION 334/ ORION 366/ ORION 5005

FEATURES:

ORION 33 : Alkaline Liquid Descalant and Rust Remover for Aero Engine Components

- Clear viscous water soluble strongly alkaline concentrate liquid compound along with alkalis, surface active agents and sequestrants
- Primarily intended for the removal of rust and high temperature scales from iron and steel but is also capable of removing oil, grease and some air dried paints
- Specially designed for Aero Engine Components

ORION 334 : Heavy Duty Alkaline Concentrate for Grease, Rust and Oxide Scale Remover

- Viscous liquid consisting of a blend of sequestering and reducing agents, surface active agents and caustic alkalis.
- Application for use in roller bearing cleaning
- Method of use and concentration of wash tank chemical: Proceco / metco machine: for roller bearing cleaning
- Specially designed for Marine Engines

ORION 366 : Brightener and corrosion product remover

- Copper Brightener used for removal of corrosion deposit from copper and copper based alloys
- Blend of mineral acids and strong oxidizing agents
- Used as supplied either by brushing or immersion in a suitable acid resistant tank with lid
- Specially designed for Naval Ship Maintenance

ORION 5005 : Aircraft Exterior & General Purpose Surface Cleaner

- Liquid concentrate alkaline aircraft exterior and hard surface cleaning compound with or without foaming
- Used for the removal of light grease and oils, sooty deposits and other organic soils from a wide variety of metallic and non-metallic surfaces
- Suitable for use as a primary cleaner in aero engine overhaul cleaning processes



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