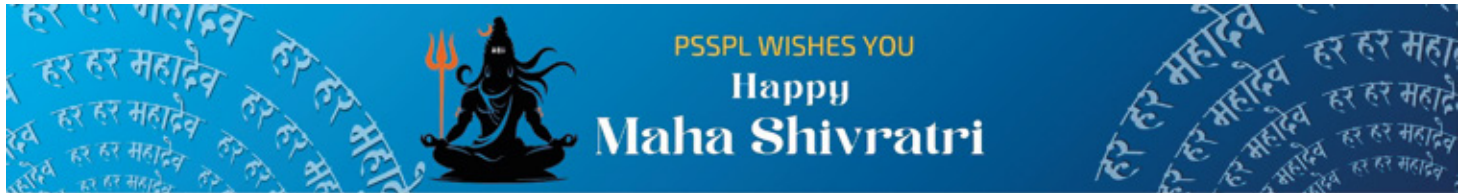


INSIDER

ISSUE 09

For Internal Circulation Only



PSSPL News

MACHAUTO EXPO SHOW SUCCESS



Product Focus : E-COAT

TEKTOR

Tektor is a dry lubricating electrophoretic process. It is an excellent replacement for traditional lubricants such as oil and grease. It enables easy sliding of touching surfaces as it is specifically designed for friction control. It is also known for its anti squeak properties and has found major applications in the defense and automotive industry.

EXAMPLE INDUSTRY APPLICATIONS

- Hand guns
- Car seatbelt fixtures



Follow Us On Social Media



Active Involvement

Progressive Surface Systems Pvt Ltd (PSSPL) introduces STRIPEX, a high-performance, ready-to-use solution for damage-free coating removal. Whether it's electroless nickel, tin alloys, or other coatings, STRIPEX ensures fast, efficient, and precise results, making it ideal for various industrial applications.

With its innovative formulation, STRIPEX simplifies surface treatment processes, protecting the integrity of materials while saving time.

Follow us on the below accounts

Twitter handle:

psspl_surface

LinkedIn account:

Progressive Surface Systems Pvt Ltd

**NEW
ARRIVAL**

NEW LAUNCH

ELECTROPOLISHING of STAINLESS STEEL

PICKLESURF-UB

- Removes scale, discolouration, and rust from welds of austenitic Cr-Ni and Cr- Ni-Mo steel.
- Suitable for Ni, Ni alloys, Cu, Cu alloys, Aluminium, Aluminium alloys, Titanium alloys.
- Leaves metallic, clean, matt surface with silvery bright finish.
- It stops corrosion and restores the full corrosion resistance of the material.

ELGRIT E – 260

INTERNAL VESSEL

- Elgrit E 260 – E provides bright metallically clean surface free of burrs.
- which is smooth in the micro range and minimised in its extension.
- Feature maximum passivity and corrosion resistance.

ELGRIT - E269

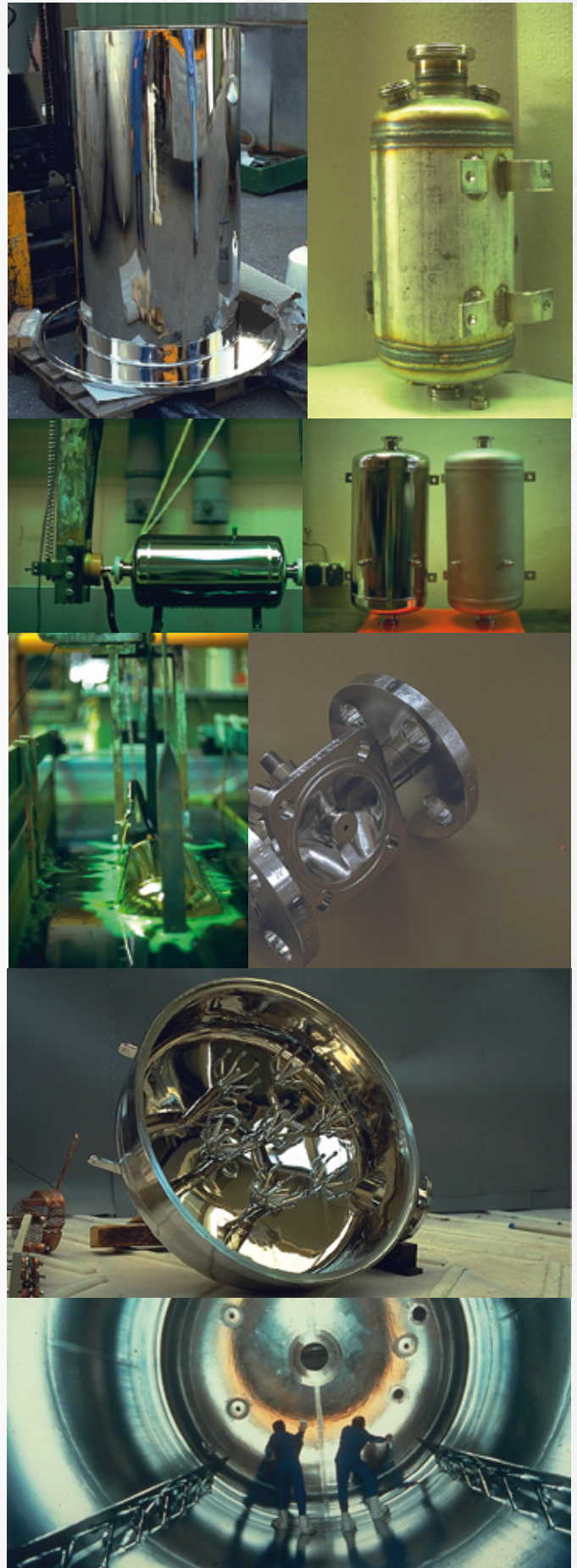
GENERAL APPLICATION

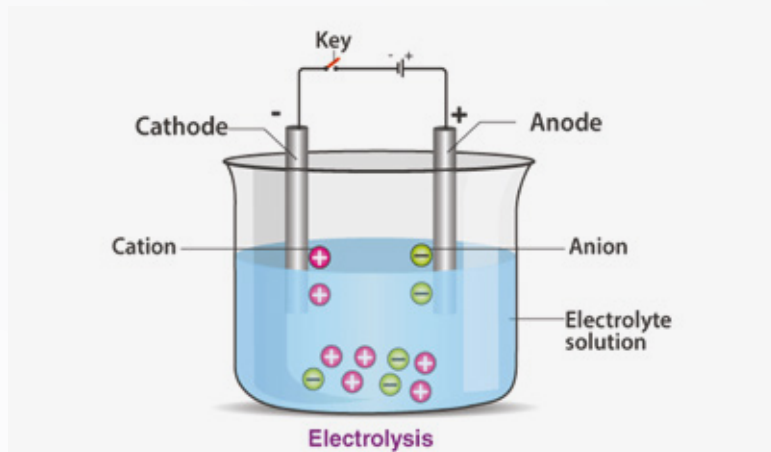
- Engineered for bright, metallically clean surfaces.
- Free of burrs, smooth micro-range, and minimized extension.
- Electro-polished materials known for passivity and corrosion resistance.

ELGRIT E268-E

BIG SHEET

- Elgrit E 268 – E provides bright metallically clean surface free of burrs.
- which is smooth in the micro range and minimised in its extension.
- Feature maximum passivity and corrosion resistance.





SERIES 9

BASICS OF ELECTROPLATING

In Continuation From Last Issue

38. WHAT ARE ANODE BAGS?

Anode bags are porous membranes used to collect sludge from soluble anode surfaces that corrode unevenly in a plating bath. They prevent rough electrodeposits by collecting undissolved particles which normally fall from the anodes.

39. HOW ARE ANODE BAGS CONSTRUCTED?

Anode bags normally consist of woven fabrics sewn together in a loosely fitting pattern conforming to the shape of the anodes. After the bags are slipped over the anodes they are tied to the anode hooks above the solution level. The bags are usually several inches longer than the anodes so that the sludge can be collected without breaking the bags or insulating the lower ends of the anodes. The anode bag material should be woven closely enough to catch the sludge without preventing the flow of plating solution past the anode surface. The anodes would tend to become polarized if the metal concentration increased inside the anode bags

40. HOW SHOULD ANODE BAGS BE PREPARED FOR USE?

Anode bags should be thoroughly cleaned before being used in plating solutions. Sizing material, weaving lubricants, and other contamination should be removed by washing the anode bags in hot water containing a wetting agent. Then the bags should be rinsed, presoaked at the pH of the plating solution, and rinsed again before use.

41. WHAT MATERIALS SHOULD BE USED FOR ANODE BAGS?

Cotton code bags may be used for acid nickel plating baths as well as synthetic materials such as "orlon" and "dynel". For alkaline and acid baths operated at high temperatures "Vinyon" is recommended. A table showing proper choices of anode bag material is given on page 538 of the "Electro-plating Engineering Handbook".

42. WHAT IS A METAL CATHODE?

A metal cathode is the negative electrode in a plating solution. It is the electrode on which the metal ions are reduced to metal atoms forming the deposit.

INDUSTRIAL NEWS

PM Modi inaugurates Bharat Mobility Global Expo, says India's automotive industry is future-ready

PM inaugurated the Expo at Bharat Mandapam in presence of Union ministers Nitin Gadkari, H D Kumaraswamy, Jitan Ram Manjhi, Manohar Lal, Piyush Goyal, and Hardeep Singh Puri, and leaders of the automobile sectors.

Honda says nearing 40% global motorcycle market share, led by India and the Global South

By 2030, Honda said it aspires the global motorcycle sales reaching 40% orders from the current 5 crore, including electric two-wheelers, powered by demand in what it calls the 'global south' region, comprising of India, Indonesia, the Philippines, Brazil, and other South American nations.

Gensol Engineering's two-door, two-seater EVs evokes interest among fleet owners

Gensol claims the running cost of the EVs is as low as 50-60 paise per km, making it up to 80% cheaper to operate than petrol vehicles. Ezio is capable of covering 200 km on a single charge, said the company, with full charging in 2-3 hours.

India's automobile industry will soon beat US, China to become number one in world: Gadkari

Presently, size of the automobile industry is Rs 78 lakh crore, followed by China (Rs 47 lakh crore) and India (Rs 22 lakh crore).

Automobile retail sales decline 12% in December; jump 9% in CY2024: FADA

Overall vehicle registrations stood at 2,61,07,679 units last year as compared to 2,39,28,293 units in the 2023 calendar year, recording a growth of 9 per cent.

Tata Motors Q3 FY25: JLR shines while domestic business remains muted

A healthy line-up of new products and strategic positioning of EVs should drive growth.

MDs

CORNER



PSSPL Protect B

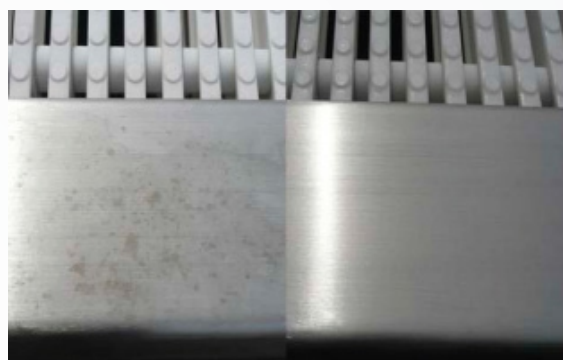
The corrosion resistance of stainless steel is upgraded by PSSPL Protect B significantly. The natural passive layer of stainless steel will be cleaned and by the throwing power of special chemical agents reinforced. Rust is removed. Affected, corroded, or discolored surfaces can be sanitized. The corrosion resistance of the stainless steel surface is boosted up even in the welding zone. In many cases, pickling can be substituted.

The superior effect of PSSPL Protect B is based on the deep cleaning of the passive layer (selective removal of iron). The surface finish is not changed. Brightness is obtained, while dull surfaces stay dull.

PSSPL Protect B enhances the color stability of the surface. Discolorations are not visible up to 240°C heating temperature.

PSSPL Protect B is able to upgrade all kinds of stainless steel, including Cr-steel (>15% Cr). Treated surfaces have the approval for direct contact with food. (ISEGA-certificate)

PSSPL Protect B is a liquid, non-hazardous, and biodegradable product that can be applied through immersion baths, tricks, flushing pipelines, or sponges. Its best results are achieved after 3 hours at 60°C process temperature. Surface cleaning is crucial, and the rinsing water must be neutralized according to environmental regulations.



Design and Construction of a New Stainless Steel Reaction Vessel for Electroplating Intermediates Production

The demand for high-quality electroplating intermediates in various industries, including electronics, automotive, and manufacturing, necessitates the development of a reliable and efficient reaction vessel. The new stainless steel reaction vessel for producing electroplating intermediates combines durability, precision, and safety. With features like advanced temperature control, an automated control system, and corrosion-resistant materials, this vessel will help improve the efficiency and quality of electroplating intermediates production. Additionally, its user-friendly design ensures easy maintenance and operation, supporting high-quality manufacturing standards.

