

CASTCLEANER SS 3006

Recommended for DESCALING, PICKLING & Total CLEANING of 304 & 316 L as well as ALLOY STEEL Castings, Forgings, Auto Parts, Cylinder-Liners, Gears, and all ANNEALED & HEAT TREATED COMPONENTS

INNOVATIVE COATING INDUSTRIES : F-II / 29 / 4 / ii , Nr Telco Materials Gate , Pimpri ; PUNE 411 018 offers a COMPLETE RANGE OF STAINLESS STEEL PICKLING , DESCALING & PASSIVATION CHEMICALS.

These chemicals are most ideal for TOTAL CLEANING OF 304 & 316L STAINLESS STEEL, ALLOY STEEL casting having various metallic compositions.

We offer a wide range of METAL CLEANERS (suitable for BRUSH, SPRAY& DIP applications depending on the extent of Rust, HT Scales & Metal heating temperatures applied in the HT / annealing process.

CASTCLEANER 3006 is used for Degreasing, Descaling, CLEANING of SS Casings , Forgings , Heat Treated and Annealed Components , Tubes , Sections, Fabrications prior to Machining. CASTCLEANER 3006 is a TWO IN ONE Chemical, ABSOLUTELY USER FRIENDLY, Very Easy to Handle and can be washed off completely in case of Spillage. CASTCLEANER 3006 formulated as per the requirements of **ASTM A 380 & IS 10117, have very controlled Foaming and fuming, prove to be EVEN ECONOMICAL compared to use of Concentrated grade Nitric / Hydrofluoric Acids .**

Recommended Method of Use :

Use **CASTCLEANER 3006** at 50 % Concⁿ by adding this to Water in a plastic / PVC / HDPE Container / Tank, of suitable size, volume & dimensions as per the size of components. Always add **CASTCLEANER 3006 into Half-filled tank with water. Cleaning is done at Room Temperature.**

The Tank shall not be Metallic / FRP Lined as the acidic contents of the chemical will attack the Tank materials and will also affect the strength of **CASTCLEANER 3006**.

DIP the Components to be de-scaled, cleaned in the tank containing 50% solution of CASTCLEANER 3006 for a period of **30 minutes to 2 Hrs. at Room Temperature.**

The cleaning time cycle is to be set by the plant operators. The process time required for cleaning will vary from component to component and will also depend on alloy composition, HT Temp and time, extent of annealing etc. There are NO SPECIFIC BATH ANALYTICAL PROCEDURES to be conducted. No Titrations are recommended for determining the Bath Chemical Strength. Operators judgment and discretion are the most apt process quality control.

Replenishment or Top-Up with fresh **CASTCLEANER 3006** shall be done when cleaning time increases. The bath shall be discarded after continuous use of 30 to 45 days

After complete cleaning **wash the de-scaled components with water, to completely remove residual acidic traces** from the objects. Washing with running water / flowing water in recommended.

AIR DRY the cleaned components by Hot Air Blow / Oven drying at 100 °C for 5 – 10 min. This will completely remove water / moisture from the cleaned metal / surface.

Safety Requirements for the operators :

CASTCLEANER 3006 is acidic & are contains strong oxidants . Following precautions may observed strictly by the users of these products.

Eye Protection : Wear chemical type splash goggles when working with these chemicals. Do not allow these products or their vapours to come in direct contact with eyes. Flush with plenty of water in case of spillage / contact of these products with eyes/any part of body.

Skin protection : Operators using **CASTCLEANER 3006** products shall wear all the necessary protective gear, as used while handling Acids & Hazardous chemicals. Use Rubber or PVC aprons Hand-gloves, Face Shields, Gum Boots Safety shoes.

Respiratory Protection : Operators MUST USE Nose-filters / Face Shields for respiratory protection.

Steps Taken for Spillage / Leakage : Since **CASTCLEANER 3006 is strongly acidic** , flush the floor area where these products are leaked / spilled , with plenty of water. **CASTCLEANER 3006 is completely soluble & miscible in water and hence are washed away by use of water.**

Effluent Treatment : The Effluent treatment of the **CASTCLEANER 3006** shall be carried out by pH adjustments, using lime or Alkali. Innovative will also supply NEUTRALIZER which can be easily used for TOTAL Neutralization in a controlled manner. There are No Toxic or Poisonous ingredients in the formulation of **CASTCLEANER 3006**. It is formulated so as to make it completely safe for Workmen & Operators and is RoHS Compliant. **CASTCLEANER 3006 is NON FLAMMABLE.**

STORAGE : All Supplies of **CASTCLEANER 3006** shall be stored in a cool, dry , covered below , and always below 45°C. **The shelf life of CASTCLEANER 3006 is 12 months.**

SS Casting AFTER 60 Min DIP CLEANING in CASTCLEANER 3006



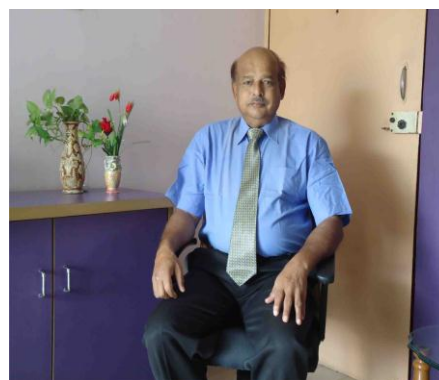
SS Casting before Cleaning

For other grades of STAINLESS STEEL & MILD STEEL, Specially Formulated Cleaning & DESCALING Chemicals are offered as per customer requirements.

VERY IMPORTANT Information : AVOID USING DIRECT NITRIC & HYDROFLUORIC ACIDS

ALL SS PICKLING FORMULATIONS are based on HYDROFLUORIC ACID + NITRIC ACID. These are extremely Dangerous Acids for operators skin, Respiratory Tract & Mucous Systems in Humans for handling and use. Hydrofluoric acid will attack human skin and dissolve the affected area . Nitric Acid fumes will attack the Mucous and the respiratory tract. It is advised NOT TO DIRECTLY USE CONCENTRATED ACIDS (Commercial Grade) without formulating them into a very safe and user friendly formulated product . **Hydrochloric and Sulphuric acids MUST NOT BE USED EVEN IN TRACES. These acids when used can cause SUB SURFACE CORROSIONs & POST CLEANING CORROSION in Fabricated structures and metallic components due to CHLORIDE and SULHUR which can remain retained / trapped in the STAINLESS STEEL FABRICATIONS. This Post cleaning corrosion appears 2-6 months later, due to the entrapped chloride, sulphur and Hydrogen by reacting with atmospheric oxygen and moisture contents.**

Our product range includes Pump Casing, Impellers, Stage Casing, Stuffing Box, Centrifugal Sleeves, Casting for Ball Valve, Check Valve, Globe Valve, Butterfly Valve & other Valve bodies, Crushing Ring, Jaw Plate, Bollards, Mill Liners, Bull Ring Segments, Spares for Crushers, Spares for Pulverizing Mills , Pumps, Valves, Cement, Chemical, Marine, Mining, Power and General Engineering.



Prof PRADEEP Vaidya, Technical & Marketing Director, PROMTECH GROUP; the author of the above article has 35 yrs of experience in Metal Cleaning; pickling /Passivation , Conversion coatings; Phosphating / Chromatizing Processes . He has had his Technical training at several Centres on this subject in England , Germany, Holland, America , Poland, France, Switzerland. He operates three manufacturing Plants in MIDC Pune. **Thro PROMTECH CONSULTANCY, he also offers Manufacturing Process Consultancy & also provides Technical Know-How to Young Graduates, Executives on VRS, Technocrats, Tiny, SSI and SME units planning Expansion**

For All Technical and Commercial Information : Please call : **PRADEEP VAIDYA** Thane **09820181738** 022 25883265
Email : puvpromtech@gmail.com
website ; www.promtechaerosol.com
Ms PAYAL : 97767982244 pavalthak75@gmail.com
Sonia Vaidya : 9819813015 soniavaidya30@gmail.com