GERAMIN IT 60

Medium for degreasing and washing of sheet metals in the metal industry in the technological process before dyeing or enameling

Usage

GERAMIN IT 60 is used for cleaning, washing and degreasing, of all dirty (greased) subjects and metal areas, that are dipped in 5-10% water solution of 60-70 ^{0}C.
It is recommended for degreasing of various sheet metals and other parts in the metal industry, such as: mixers, boiler units and other systems, with which an elimination of thick deposits of various organic and inorganic materials is done.

Composition and characteristics

GERAMIN IT 60 is produced on a base of refined mineral components, inhibitors against corrosion, emulsifying agents degreasers, tenzides, anion and non anion surfactants . They are powder like components that because of the excellent soaking in hot water with penetration dissolves the greases (fats), dirtiness of the metal parts, and because of the good mixing with hot water allow efficient degreasing, and prepare the material for further technological process.

GERAMIN IT 60 belongs to a group of non-flammable materials while during use of it should have in mind:

- It doesn't consist silicates
- It doesn't consist chlorine, PCT and PCB

- It isn't used on materials that are alkali sensitive.
- At handling one should stick to the manual for work with alkaline chemicals: **S_2, S_{26}, $S_{36/37/39}$, S_{45}.**

Physical Chemical Characteristics

- It contains low foaming, surface-active materials.
- Density- (15 ^{0}C) in water solution -------1,19 g/cm.
- Appearance ----------white powder like substance.
- pH --------5 % emulsion ----------alkaline.

Storing

To be stored in rooms with temperature above 0 ^{0}C, protected of moisture and fire. Packing: 20/1 kg.

Usage

GERAMIN IT 60 is applied on surfaces with depositing, dissolving and dipping. It is left to affect on dirty surfaces about 15-45 min. After that, to be rinsed well with hot water

It is produced by internal norm.

Electrolux-Bitola

GERAMIN FD 18

Medium for degreasing and disinfection

Usage **GERAMIN FD 18** is used for cleaning, washing, degreasing and disinfection of all dirty items and surfaces that after degreasing are rinsed with hot water. It is recommended for degreasing and disinfection of compartments, motors, garbage containers, wagons, tanks, and serves for elimination of thick deposits of various organic materials, oils e.t.c.

Composition and characteristics **GERAMIN FD 18** is produced on a base of derivatives and unsaturated carbonhydrogens, inhibitors against corrosion, emulsifying agents tenzides and disinfection media.
That is rare olive green liquid that because of the excellent soaking and penetration dissolves the fats remains, organic materials from the metal parts. It isn't used on materials that aren't alkaline resistant. At handling with them one should stick to the alkaline handling manual by standard number: $\mathbf{S_2}$, $\mathbf{S_{26}}$, $\mathbf{S_{36/37/39}}$, $\mathbf{S_{45}}$.

GERAMIN FD 18 belongs in the second group of nonflammable liquids while during usage of it should have in mind that:

- To use CTP equipment for manipulation
- In contact with GERAMIN FD 18 with eyes or with the mouth, to rinse with great amount of water and to seek medical care.

Physical Chemical Characteristics
- Flash point ----------/
- Density – (15 ^{0}C) ----------1. 09 g/cm
- Appearance ----------olive green liquid
- pH ----------5 % emulsion ----------alkaline

Storing To be stored in rooms with temperature above O ^{0}C, protected of moisture and fire, not to be exposed on low temperatures, ice and high temperatures, on sun.

Usage **GERAMIN FD 18** is applied on surfaces with injection, coating or dipping (soaking). It is left to affect on dirty surfaces from 10 – 30 min. After that, to rinse it well with water.
Packing is 50 and 208 lit.

It is produced by internal norm.

Electrolux – MAKOTEHNA

GERAMIN FD 40

Sour liquid medium for degreasing of aluminium steel, inox and metal surfaces in metal-dyeing industry

Composition and characteristics

GERAMIN FD 40 is sour liquid medium for removal of surface oxidized layers and dilution of rust, that after degreasing, surfaces are rinsed with water. It is recommended for degreasing of aluminium, black sheet metal, steel, eliminates the corrosion and doesn't damage the base material. After the reaction with the rust on the metal, on the surface of it is formed a neutral and stable phosphate-organic complex layer.

Usage

GERAMIN FD 40 is used for degreasing of sheet metals in the metal industry before dyeing or enameling, for regular cleaning of metal surfaces at temperature of 60 – 70 ^{0}C, in water solution with previous alkaline process, and on all places where the sand blasting process isn't possible, as for example: steel constructions of halls, screw-bolt items, bathtubs, preparation of boiler units, auto surfaces and other. After use of GERAMIN FD 40 the surfaces are rinsed with water supply water.

GERAMIN FD 40 belongs to the group of **IV** th group of **POISONS** and during washing with the same the protective measures have to be taken into consideration that are valid for work with materials that damage, and that is protective gloves, glasses and protective clothing, and one should stick to and use in all the **manual for handling with acids by standard: R-21/25, R-41, S-2, S-46.**

Physical Chemical characteristics

- It contains low foaming, surface-active materials.
- It is used diluted with water in ratio of 4l./100l. water in dependence with the treating way of the degreaser, in conditions before the dyeing in combination with alkali degreaser of the **GERAMIN** program.
- Appearance ----------clear colorless liquid.
- pH 5 % emulsion ----------4.19.

Storing

To be stored in rooms with temperature above 5 ^{0}C, protected of moisture and fire, not to be exposed on temperatures under 0 ^{0}C and on sun. Packing 50 lit. and 208 lit.

Usage

GERAMIN FD 40 is applied on the surfaces with injection, polishing or dipping. It is left to affect on dirty surfaces from 15-30 min. After that, it is rinsed well with water supply water.

It is produced by internal norm.

Electrolux MAKOTEHNA