



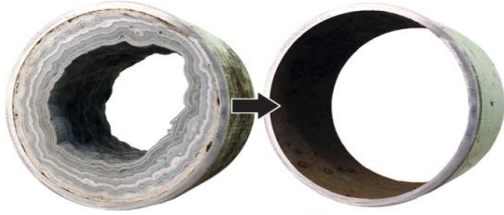
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GRAMICID-17[P] DESCALANT



Gramicid-17[P] is complex formulation of a powerful descaling agent, a surfactant and corrosion inhibitor compound.

It is ideally suited for removal of scales from Cooling Towers, Boilers, Coils, Heat exchangers, Chillers and a wide range of heating and cooling systems.

It is particularly effective in removing the problem of milk stones in Milk Industry.

SPECIFICATION:

Appearance	White powder
pH (as is)	Acidic

BENEFITS:

Dissolves scales rapidly	Prolongs equipment life
Offers uniform descaling	Easy to handle
Is harmless to equipment & personnel	

Gramicid- 17[P] though acidic, is non-hazardous, non-inflammable and does not pave the way for pitting corrosion.

TESTING & DOSING:

- **METHOD OF USE FOR SCALE TESTING:** In strong solution of Gramicid-17[P] in water add small quantity of scale scrapped off the equipment to be descaled, if effervescence is noted, it may be concluded that Gramicid-17[P] will act quickly and efficiently.
- **CONCENTRATION:** Gramicid-17[P] has to be dissolved in water. The quantity of Gramicid-17[P] required will depend on the actual quantity & nature of scale present. A 3% to 10% w/w solution of Gramicid-17[P] in water is generally recommended. The total quantity of this 3% to 10% descaling solution will be about 10% higher than the filled volume of the equipment to be descaled. **This formulation is recommended for scales containing high silica.**
- **ARRANGEMENTS FOR DESCALING OPERATION:** Connect the tank containing the descaling solution to the equipment to be descaled. The solution should enter at the lowest point of the equipment & leave from the highest point, preventing formation of gas pockets & uneven descaling. Where circulation is difficult, the equipment to be descaled should be filled with 3% to 10% solution and allowed to soak for 8 hours.
- **CHECKING FOR COMPLETION OF DESCALING:** A sample of the descaling solution may be withdrawn periodically and tested for acidity either by titration or by using a pH paper. When descaling is complete the concentration of acid will remain constant. If however, the solution shows no acidity more Gramicid-17[P] should be added to the descaling solution and the process of descaling continued till the constancy of concentration of acid is achieved.
- **FLUSHING & NEUTRALIZING:** After completion of descaling drain the equipment and flush thoroughly with water till water becomes neutral.

Use Gramicid-N for neutralization after descaling with Gramicid-17 [P]

PACKING: GRAMICID-17[P] is available in 40kg and 60kg HDPE cans