

Teflon coated chemical heating elements

Theeta is the largest heating element and heating units manufacturing and exporting company in India. In the industrial sector, our elements and units are used across the sectors, including power sector, Heavy industries, refineries, etc.

A large PSU had approached us with a problem they had been facing since years. They were using over the side alkaline heaters manufactured by us and other heating element companies across India. This PSU was using a solution including part of Sulphuric acid. The chemical used to spoil the heating elements within a few months which was a major problem. In addition to the problem of changing the elements regularly, the efficiency of the element was also a problem in the late stages of the life of these heating elements.

Along with the representatives of the PSU, our team sat down for a meeting to discuss the pros and cons of different types of heating elements for their application. We then recommended SS 316 Teflon coated over the side chemical heaters. The advantages of this type of heater include longer life and ease of maintenance. Teflon forms a protective layer on top of the chemical heater, thereby protecting the heater from the ill effects of the chemical. Even if the heaters get covered with all kinds of deposits, they can be easily cleaned without damaging the heater. This type of cleaning is also not possible with conventional alkaline heaters.

The heaters are running successfully since a year and the efficiency is still close to 100%. The PSU is now planning to come up with a tender to replace all heaters across India with Teflon coated over the side heaters.