

ABSTRACT

Measuring the resistance of coatings is nothing new. Unfortunately, the current methods have some drawbacks for example, Mr. Meskens' project: steel plates are hung in the sea and then pulled through a towing tank. Next, the resistance of the steel plates and their different coatings is measured.

In order to obtain a representative result, the different seasons must be considered, which makes such a process time-consuming, cumbersome and labor-intensive. The research in question is a methodological copy of Professor Schultz's research. With his permission, it was possible to weigh his earlier results against those obtained by the research of Mr. Meskens. Professor Schultz's research was carried out ten years ago, which will make it possible to determine whether the resistance of coatings has evolved during this period of time.

In this thesis, an alternative research method, will be elaborated using various scientific principles and forces. This alternative method aims to achieve reliable results in a simpler way to enable a quicker and simpler performance of tests. In the future, this optimization of the method will be without sacrificing the correctness and corresponding reliability of the system and the corresponding results.

This alternative method consists of determining the resistance of the coated parts and consequently the coatings used by means of a rotational viscometer rotating in several fluids.