

# Belzona Energy-saving Coatings Improve Pump Efficiency

ID: 9312

Industry: Fluid Flow  
Application: CEP-Centrifugal Pumps  
Substrate: Cast Iron  
Products: Belzona 1341 (Supermetalglide)

Customer Location: Jiangsu, China  
Application Date: May 2019

## Problem

The pump efficiency test of the customer's new pump found that the target value was not reached.



Before application



After surface preparation



During application of Belzona 1341



Application completed

## Application Situation

The circulating water pump applies Belzona energy-saving and efficiency-enhancing coating.

## Application Method

Application was carried out in accordance with Belzona System leaflet CEP-10.

## Belzona Facts

The pump efficiency of the new pump was tested before leaving the factory and it was found that it did not reach the target value. Traditional methods of smoothing the substrate surface to reduce fluid resistance and enhance pump efficiency have had limited success. The customer chose to apply Belzona energy-saving and efficiency-enhancing coating to the overall internal flow surface of the pump casing, and the pump efficiency was improved. The effect is significant. The test of pump efficiency before and after the coating applied showed that pump efficiency increased by more than 3%, far exceeding the pump efficiency target value required for delivery and far exceeding customer expectations.

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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