



**APPLICATION SPOTLIGHT**  
CHEMICAL MANUFACTURING - DIMETHYLFORMAMIDE



## Chemical Manufacturing – Dimethylformamide



### APPLICATION DESCRIPTION:

#### Production of Dimethylformamide (DMF).

DMF is a clear liquid organic solvent used in a number of industrial processes, particularly in the manufacture of polyurethane products, pesticides, electrical equipment, pharmaceuticals, and synthetic leathers and fibers.

### TECHNICAL DATA:

Medium: DMF  
Pressure: >4 bar  
Density: 995 kg/m<sup>3</sup>  
Viscosity: 2 cSt  
Flow range: up to 20,000 kg/h on output lines  
Flow range: up to 50,000 kg/h on gathering line

### TRICOR PRODUCT SUPPLIED:

Two TCM-28K Coriolis Mass Flow Meters and one TCM-65K Coriolis Mass Flow Meter

### CHALLENGE:

For almost 10 years, the customer used EMF (Electromagnetic Flow Meters) with 0.5% inaccuracy. The process material consumption was controlled volumetrically, whereas the finished product was calculated only on weight, moreover the product was also sold based on weight. The downside for the customer was the fact that he was not able to control the efficiency of his production by means of proper input and output calculation based on weight.



### SOLUTION:

With TRICOR Coriolis Mass flow meters, the customer was able to diligently control product output based on the mass flow information. With the extra feature of the integrated density measurement option, the customer was also able to control the product quality better than in the past.

### RESULT:

The excellent accuracy of the TRICOR Coriolis Mass flow meter enabled the customer to:

- Save raw material during production
- Lower production costs
- Improve product quality
- Increase productivity

As a result, the customer's return on investment for the TRICOR Coriolis Mass Flow Meters was realized in a very short period of time.