

CATALYST AND STABILIZER VISCOSITY CONTROL

A simple way to lower viscosity of catalysts and stabilizers

Application

A stabilizer's purpose is to hinder reactions between other chemicals whereas a catalyst aims to increase the rate of a chemical reaction. Typical catalyst applications include making gasoline and fuel oils (catalytic cracking), making bulk chemicals, food processing, and more. Typical stabilizer applications include corrosion inhibition, pest control, pharmaceuticals, natural dietary supplements, UV radiation protection, polymerization inhibition, food preservation, and more.

Catalysts and stabilizers can be thick and extremely viscous when stored at room temperature and this makes them difficult to extract from their bulk container. Warming the drum reduces viscosity and provides easier extraction. Typically these materials are stored in 55-gallon (208-liter) drums and classified as hazardous materials.



Solution

A BriskHeat DHCX hazardous-area drum heater provides the necessary heat to reduce viscosity while meeting the strict Class I, Division 2 Groups A, B, C, and D, and Class II, Division 2 Groups F and G hazardous-area requirements. Installation is quick and easy using an adjustable spring-and-hook closure. The DHCX includes a NEMA 7 temperature controller. ATEX full coverage drum heaters are approved for ATEX Zones II 2G/2D use. With a T3 temperature rating, these can be used in applications up to 200°C (392°F).



**ATEX
Approved Model**

Other Applications

DHCX and ATEX series drum heaters are used for many applications that involve heating materials in drums located in hazardous-area locations.



**Hazardous-
Area Model**

Industries

| | |
|---------------------------------|-------------------------------------|
| Chemical Processing/Extractions | Gas & Oil |
| Cosmetics/Personal Care | Life Science/Medical/Pharmaceutical |
| Food & Beverage Processing | |

Types of Users

| | |
|------------------------|---------------------|
| Facilities Maintenance | Production Managers |
| Process Engineers | |