

JANUARY | AD CLOSE: DECEMBER 9 | MATERIAL DUE: DECEMBER 12



Upcoming
Features

FOCUS ON E-NEWSLETTER:

This monthly e-newsletter is sent to a targeted database determined by the subject matter of each technical report.

The January e-newsletter will cover Pumps and deploy January 14.

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TOPIC: PREVENTING ELECTROSTATIC EXPLOSIONS & FIRES

FEATURE REPORTS

Summary: The chemical process industries (CPI) routinely handle flammable liquids and solids in ways that inadvertently generate static electricity. These materials are often flammable, and they can be ignited by discharges of the static electricity that they have generated. This article looks at how, when and where electrostatic charge is generated in the CPI, why it accumulates to produce dangerous discharges and what practical measures can be taken to control the risk of explosion and flash fire due to static electricity.

Related equipment and services: Any type of equipment used to prevent sparks, explosions and hazardous voltage buildup, including insulating materials for equipment, storage vessels and flooring, explosion venting and containment equipment and personal protective equipment (PPE)

Relevant industries: Any sector that handles flammable materials is concerned with explosion safety

TOPIC: SOLIDS DRYING

FEATURE REPORTS

Summary: Determination of moisture content in solid materials is a critical function in several CPI sectors, including food, paper, pharmaceuticals, plastics and others. Moisture in solids can have a significant impact on final product quality, as well as implications for solids handling, purchase price and shipping costs. This article will review the nature of moisture in solids and discuss various methods for measuring moisture in solid materials.

Related equipment and services: Solids-handling equipment, vacuum dryers, ovens, microwave dryers, Karl Fischer titration apparatus, analytical instruments

Relevant industries: Food, pulp and paper, pharmaceuticals, polymers, specialty chemicals, fine chemicals

TOPIC: EMISSIONS CONTROL

NEWSFRONT

Summary: Combustion processes in power plants, boilers, smelters and many other operations in the CPI release all kinds of emissions, including oxides of nitrogen (NOx), sulfur (SOx), dust and other pollutants. Controlling these emissions is necessary and often required to keep the environment clean. This month's Equipment Newsfront will present the latest trends and technology innovations in emissions control.

Related equipment and services: Fluegas desulfurization (FGD) technology; selective catalytic reduction (SCR) technology; deNOx and deSOx technology; hot gas filtration; electrostatic precipitators; and more

Relevant industries: Many CPI sectors generate emissions that need to be controlled, including power generation, petroleum refining, petrochemicals, fertilizers, mining, metals and more.

Editorial material for consideration should be sent to senior editor Gerald Ondrey (gondrey@chemengonline.com)

TOPIC: MATERIALS OF CONSTRUCTION

FACTS AT YOUR FINGERTIPS

Summary: Chemical processes often involve high temperatures, harsh chemical mixtures, extreme pH levels and other conditions that require highly corrosion-resistant metal process equipment. For these situations, performance alloys can be considered. This one-page reference will review the makeup and properties of common performance alloys, such as Hastelloy, Inconel, Monel, Duranickel, Incoloy and others.

Related equipment and services: Process equipment, such as pumps, valves, vessels, heat exchangers and so on, designed for harsh environments, as well as corrosion-resistant coatings

Relevant industries: Chemicals, mining, petrochemicals

TOPIC: DIMETHYL ETHER PRODUCTION FROM NATURAL GAS & CO2 (DIRECT METHOD)

TECHNOLOGY PROFILE

Summary: Dimethyl ether (DME), the simplest aliphatic ether, is used as an aerosol propellant, a fuel, a solvent and as a precursor to other chemicals. This one-page process summary outlines the direct method of synthesizing DME from natural gas and carbon dioxide.

Related equipment and services: All general process equipment, such as vessels, reactors, pumps, valves, heat exchangers and so on

Relevant industries: Chemicals, petrochemicals, fuels

TOPIC: FLOW MEASUREMENT & CONTROL

FOCUS

Summary: Flow is one of the main process variables that needs to be measured, monitored and controlled. This month's Focus will present the latest products entering the market.

Related equipment and services: All types of flow sensors, flowmeters, flow transmitters and other associated equipment

Relevant industries: All sectors of the CPI, especially the chemical, petrochemical and petroleum-refining sectors. Editorial material for consideration should be sent to senior editor Gerald Ondrey (gondrey@chemengonline.com)

TOPIC: PRACTICING YEAR-ROUND WASTE COMPLIANCE

ENVIRONMENTAL MANAGER

Summary: Hazardous waste must be managed and disposed of properly, and inadequate waste management presents potential health and safety risks to people within a facility, community and environment. That is why it is important keep a pulse on regulatory changes and updates year-round to make sure a manufacturing facility is meeting all compliance requirements.

Related equipment and services: Project management and planning tools, drums and other storage vessels, labeling and signage, logistics, record-keeping and materials-logging tools

Relevant industries: All sectors of the CPI produce waste materials that must be properly handled

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