

OPTIMUM DRUM PROTECTION FOR LONGER SERVICE LIFE

Protective thermal spray coating for drum dryer

FOOD-GRADE SYSTEM

PROVEN ALTERNATIVE TO CHROMIUM PLATING

Certain food, chemical, and pharmaceutical products contain acids that can damage standard cast iron drums. For decades, chromium-plated drums have been the preferred solution for low-pH products and thin, highly adhesive product films. Today, thermal spray coating offers an advanced alternative, providing the same surface finish and heat transfer performance while delivering superior wear resistance. Its hard, dense coating structure is less susceptible to impact damage and offers enhanced protection against acidic products.

IDEAL FOR ACIDIC FOOD, CHEMICAL, AND PHARMACEUTICAL APPLICATIONS

When production, quality, and safety requirements are critical, reliable equipment is essential. ANDRITZ thermal spray coating complies with European and US regulations and is ideally suited for components in contact with food, chemicals, and pharmaceutical products.

ANDRITZ

Best-in-class thermal spraying technique

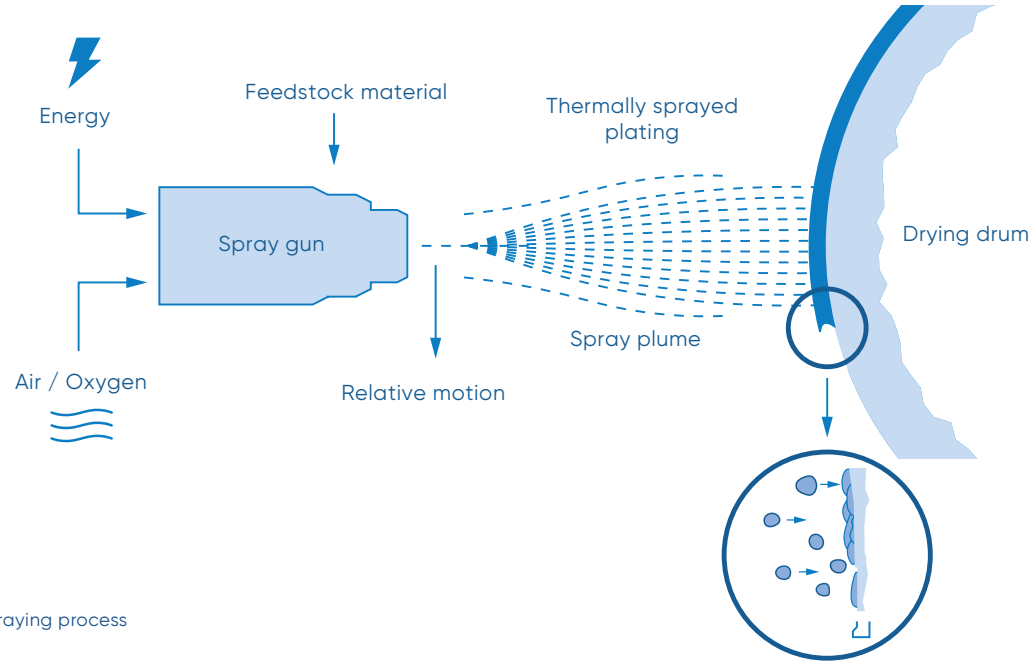
The ANDRITZ thermal spray process using high-velocity air fuel (HVAF) or high-velocity oxygen fuel (HVOF, which can be applied on-site) heats and accelerates carbide powder particles. It treats and protects the surface of a drum dryer in such a way that it maintains its quality for many years, preventing abrasion, erosion and corrosion.

IT'S ALL ABOUT KINETIC ENERGY

In this high-velocity, thermal spraying process, kinetic energy is a key parameter. The high-impact energy results in intense bonding with the base material and provides a dense coating at relatively low temperatures. A gun sprays particles onto the drum at supersonic speed (>1,000 m/s). This technique creates an ultra-hard protective layer that is highly resistant to erosion, corrosion, and abrasion, and – more specifically – to acidity.

YOUR BENEFITS

- **Food-grade compliant contact material**
- **High-density anti-abrasion coating offering superior durability compared to traditional chromium plating, extending the service life of your drum dryer**
- **Increased hardness and optimum corrosion resistance for less wear, meaning fewer repairs and thus, less downtime and reduced maintenance costs**
- **Strategic long-term investment to safeguard performance and value in both new and existing drum dryers**



Thermal spraying process

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