

# KALFLEX® Wear Resistant Flexible Pipe Systems

## Effective Wear Protection in Pipes and Elbows Adapts to Movement Quickly and Easily

KALFLEX wear resistant flexible pipe systems provide a cost effective solution for connecting conveying system components that move due to vibration, thermal expansion, or as a result of intended movement. The flexible system can be easily integrated into existing pipe systems using normal flanging and works well in pneumatic conveying equipment. The elbows are useful in replacing worn components of undetermined angle or radius. **For example:** pneumatic conveying lines within waste incineration plants that are designed for the incineration of hazardous waste. The leakage in a conveying line as a result of unexpected abrasion would cause dangerous or environmentally harmful substances to be released.

The interior of flexible KALFLEX is composed of individual wear resistant segments to provide flexibility. The pipes and elbows are enclosed in an engineered rubber jacket to ensure stability and tightness. Depending on the application, KALFLEX lined piping components can be supplied with KALMETALL®-C hard cast iron or KALOCER® high alumina ceramic for wear protection.



- Quick, easy, cost-effective installation.
- Uses a variety of flange and coupling connections.
- Flexible radius and angle positions.
- Maximum temperatures up to 180°C/356°F.
- Sizes range from 20 to 150 mm (0.79" to 5.91") ID.
- Maximum 10 bar pressure (145 psi).
- Absorbs vibration and thermal expansion.
- Isolates weighing equipment.
- Highly wear resistant
- Watch the video

## KALFLEX Components Lined with KALMETALL®-C or KALOCER® Protect Pipe and Bends From Extreme Wear

KALMETALL®-C hard cast iron segments are used in KALFLEX components to withstand wear from impact and sliding abrasion. Select from a variety of alloying compounds with hardness from 580-700 HV, to optimize protection in specific applications. Diameters range from 20 mm to 150 mm (.79" to 5.91") ID.

KALOCER alumina oxide ceramic segments with a Moh's hardness of 9, are used in KALFLEX components exposed to extreme abrasive wear. When KALOCER® is used, the end segments are made of KALMETALL®-C and the flanges are carbon steel for strength. Diameters range from 50 mm to 100 mm (1.97" to 3.94") ID.

