Xaloy® Extrusion Barrels

Nordson invented bimetallic cylinders more than 90 years ago and continues to lead the way in development of improved alloys and production processes.

Xaloy X-800®, X-102®, X-220™ and X-306® barrels meet the needs for wear and corrosion resistance for your extrusion requirements.

Features and Benefits

**Xaloy X-800®**: Our best extrusion barrel
- Composition: Tungsten carbide particles uniformly dispersed in a corrosion-resistant nickel alloy matrix
- Outstanding resistance to both abrasive wear and corrosion
- Essential for extrusion of hard-to-melt materials such as HMW-HDPE or LLDPE and of highly filled abrasive materials such as those containing 25% or more of mineral fillers (calcium carbonate etc.) or glass fibers
- Resists corrosive attack by aggressive volatiles released by polymers or additives

**Xaloy X-102®**: For general purpose
- Composition: Nickel-rich iron-boron alloy
- Cost-effective choice for extrusion of unfilled or lightly filled polymers having good thermal stability
- Outlasts generic competitive barrels in comparative testing

**Xaloy X-220™**: Higher-chromium iron-boron alloy
- Premium general-purpose barrel
- A step up in resistance to corrosion and abrasive wear

**Xaloy X-306®**: For highly corrosive environments
- One of the most corrosion resistant alloys in the industry. A nickel/cobalt base alloy for the most severe corrosive atmospheres
- Applications include: highly corrosive environments, acidic salts, material with flame retardants, blowing agents, PVDF

Strong and straight. The structural shell of Xaloy bimetallic barrels consists of a microalloy steel that maintains high strength and straightness after casting of the wear-resistant alloy lining. Unlike some barrel manufacturers, Nordson can produce long barrels – up to 240 in. (6.1 m) – without resorting to butt welding. The benefit to you is a stronger, straighter barrel with no seams to trap polymers that can degrade and contaminate your process.