

Lagging & Coating Products

The term lagging describes a variety of elastomers used to coat the contact surface of a conveyor pulley. Its primary purpose is to enhance traction by increasing the coefficient of friction between the surfaces. The enhanced friction may also improve belt life by allowing lower belt tensions and reducing abrasive conditions between the pulley and belt. PCI offers two types of lagging products; those that are hot vulcanized and those that are cold bonded using adhesives or mechanical agents. Most hot vulcanized lagging products can be formulated using Food Grade Materials and modified to include several groove patterns (Chevron, Herringbone, Diamond, etc.).

Hot Vulcanized

An elastomer in its raw state is extruded and wrapped around the circumference of the conveyor pulley. The pulley is then processed in an autoclave to cure the rubber, ground to size and grooved (if specified).

Vulcanized lagging is specified by selecting a rubber compound and durometer (hardness). A variety of standard compounds are available:

Styrene Butadiene Rubber (SBR)

Nitrile (NBR)

Natural (Gum) Rubber

Carboxylated Nitrile (XNBR)

Neoprene

Urethane

Silicone

EPDM

Weld-On

60A Durometer rubber is vulcanized to steel plates that are formed to the shape of the pulley rim. These rubberized plates are held in place by retainers which are welded or bolted to the rim. This style of lagging has either diamond grooves or a smooth surface and is field replaceable without removing the pulley from the conveyor.

Ceramic

Individual dimpled ceramic drive tiles are molded into a base of premium grade rubber. The combination of the ceramic tiles and the rubber compound provides improved traction and abrasion resistance especially in wet or heavily soiled environments.

Spiral Wrap Rough Top

Spiral Wrap Rough Top (SWRT) is 2-ply 60A Durometer SBR belting that is wrapped around the pulley and secured with adhesive & rivets. SWRT has a nubby, rough profile for added traction. Resilient lagging is also available upon request.

These options are not recommended on pulleys over 12" dia.

Wing Tip Lagging

Wing tips are the primary wear component of a wing style pulley. To increase the service life of a wing pulley, PCI offers two lagging options: 70A Durometer Weld-On Steel Backed Diamond Urethane and 90A Durometer Slide-On Smooth Urethane.

Both options are field replaceable.