

O-Ring Cord Static Seals

DESCRIPTION

Linear Elastomeric Sealing Elements - O-Ring Cord

Precision-extruded O-Ring Cord represents the most flexible and cost-effective solution for the static sealing of large diameters or custom non-standard flanges, bypassing the need for expensive dedicated tooling and molds. Supplied in spools or custom cut-lengths, it enables custom-made seal manufacturing directly on site or via professional vulcanization at our facility.

MATERIALS & EXTRUSION TOLERANCES

MATERIAL / COMPOUND	HARDNESS	TEMPERATURE	CLASS TOLERANCE (ISO 3302-1)
NBR Nitrile Rubber	70 ShA	−30 / +100 °C	Class E2 (Standard precision)
FKM Fluoroelastomer / Viton	75 ShA	−20 / +200 °C	Class E1 (High calibrated precision)
Silicone VMQ	60 ShA	−50 / +200 °C	Class E2 (Excellent thermal flexibility)
EPDM Rubber	70 ShA	−40 / +130 °C	Class E2 (Weathering & ozone resistance)

SPLICING & JOINING TECHNIQUES

Hot Vulcanization

Performed directly at SYNERTECH's facility using uncured liquid raw compound of the same base polymer and localized heat-mold splicing. Preserves **85-90% of the cord's original tensile strength**.

Cold Structural Bonding

Ideal for rapid maintenance and emergency retrofitting directly on-site via professional fast-curing cyanoacrylate adhesives.