



Struktol's "New" Mandrel Lubricant

MR-161A

Struktol Company of America
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STP0258

Shaped Hose Introduction

- Shaped hoses are vulcanized on shaped (bent) mandrels to give the parts their specific shape.
- Examples include cooling hoses, air hoses, fuel hoses, washing machine hoses, and dish washer hoses.
- Polymers of choice are EPDM, NBR, CR, ECO and VAMAC

Shaped Hose Production

- Shaped hose are currently produced using a continuous extrusion process and then they are cut into pieces with the required lengths.
- These cut lengths of hose must be pushed onto shaped mandrels for vulcanization.
- To make this process possible, the end of the hose is dipped in a bath of release agent.

Shaped Hose Production

- The liquid release agent runs inside the hose and wets the lining.
- After the hose has been pushed onto the mandrel it is vulcanized.
- Pulling the finished hose off the mandrel really needs the assistance of STRUKTOL® MR-161A. Easy release for trouble free production.

STRUKTOL® MR-161A Applications

- MR-161A has shown excellent release properties of notably Ethylene Propylene Diene Copolymers (EPDM Hose, releases great in Peroxide and Sulfur cured systems)
- MR-161A has also shown excellent release properties of Ethylene Acrylate rubbers (VAMAC Hose).

Benefits of STRUKTOL® MR-161A

- Fast Biodegradability
- Good wetting of surfaces
- No swelling of rubber
- Silicone free
- No corrosion of metal parts
- Low pour point
- Thermal and chemical stability
- No mold fouling
- Non-irritant to skin
- Very cost effective
- Stable lubricant film
- Easy washability with water