



# Technical Data Sheet

## Apcoflex<sup>®</sup> NX146

Carboxylated - Medium ACN Nitrile Rubber

### CHEMICAL DESCRIPTION

Apcoflex<sup>®</sup> NX146 is a cold polymerized, medium ACN containing acrylonitrile butadiene co-polymer, modified with Carboxylic Acid.

It contains non-staining antioxidant.

CAS No.: 9003-18-3

### APPLICATIONS

Addition of Carboxylic acid groups to the main chain backbone of Nitrile polymers provides excellent Tensile and Abrasion Properties.

Apcoflex<sup>®</sup> NX146 is having low percentage of Carboxylic acid groups and is having excellent resistance to Abrasion and Wear. It is highly recommended in the manufacture of Textile Cots and Aprons, Rubber Rollers, Conveyor Belts, Hose Covers, Oil well drilling parts, Footwear components etc.

Working with Carboxylated Nitrile Polymers requires special compounding considerations. Customary Peroxide or Sulphur cures used in conventional rubbers react identically with the butadiene network of these rubbers. However, metal oxides such as ZnO, metallic salts and Amines can form secondary cross-links using the Carboxylic acid groups.

### TYPICAL PROPERTIES

Bound Acrylonitrile, %	32
Mooney Viscosity, ML1+4(100°C)	45
Ash, %	0.45
Volatiles, %	0.45
Specific gravity	0.99

### SAFETY AND HANDLING

Apcoflex<sup>®</sup> NX146 may contain traces of residual monomers, which may be released during processing at high temperatures. Therefore adequate ventilation should be employed in the processing areas.

### PACKAGING AND SHELF-LIFE

These bales are wrapped in plastic films and packed in poly-coated woven sacks.

Approx. Dimensions (in): 28x14x5.5 (when packed) for 25 kg

28x14x7.0 (when packed) for 35 kg

Weight, kg

25 OR 35 kg net (when packed)

Recommended to store in original packaging, away from direct sources of heat and sunlight. These bales will have a minimum of 24 months shelf-life under good storage practices.

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