

Nycon, Inc.

Westerly, RI

Nycon® Concrete Reinforcing Fibers

Product Description, Applications

Nycon® fibers are high strength, industrial-grade fibers specifically engineered for secondary reinforcement of concrete. They substantially reduce plastic shrinkage and hardened shrinkage cracking. Additionally, Nycon fibers decrease permeability, increase ductility and impact resistance, and improve concrete durability. Nycon fibers are a highly effective and economical alternative to welded wire fabric (WWF) and can be used in place of WWF in secondary reinforcing applications.

Nycon fibers are strong, tough and produce a smooth, nonhairy concrete finish. The standard length of Nycon fiber is 3/4" (19.1 mm); custom lengths are available. When added at the rate of 1 lb/cy (0.6 kg/m³) of concrete, Nycon fiber bundles open and separate into 34 million individual filaments. These filaments disperse uniformly in the concrete matrix during mixing and provide a 3-dimensional reinforcement unachievable with WWF.

Nycon fibers are used in slab-on-grade, flatwork, precast, shotcrete and gunite construction for:

- Roads, highways, bridges, tunnels, airports
- Parking facilities, tilt-up and retaining walls
- Marine structures, waterways, pools, sea walls
- Sewage, water treatment, nuclear power and hydroelectric plants
- Warehouses and shipping facilities
- Residential, commercial, industrial complexes
- Academic, healthcare, correctional and other public facilities

Note: Nycon fibers are not to be used as a structural reinforcement in concrete.

Properties, Performance

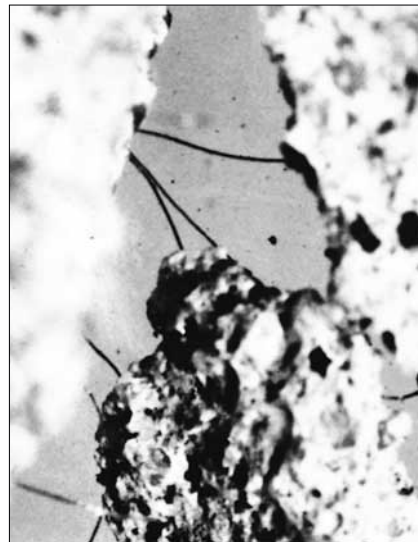
- Tensile strength - 130 ksi (896 MPa)
- Toughness - 15 ksi (103 MPa)
- Melting point - 428 degrees F (220 degrees C)
- Water absorption - 4.5%
- Alkali resistance - Excellent
- Fiber count, 3/4" (19.1 mm) long fibers - 34 million/lb (34 million per 0.6 kg/ℓ)

The following independent testing, laboratory studies and field trials indicate the overall performance of Nycon in concrete is superior to all other fibers tested:

- ASTM C1116, Standard Specification for Fiber-Reinforced Concrete and Shotcrete

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