

AR-HD

ALKALI RESISTANT, WET MIX,
MEDIUM DENIER, SUPERIOR FINISH

High dispersion, long-life, reinforcement fibers designed for rapid dispersion in wet mix products.

Meets the requirements of ASTM C-1116 and AC-32 at 1lb (0.45 kg) per CY.

Product Specs

Filament Diameter	0.0005" (0.01 mm)
Fiber Length	1/2" (13 mm), 3/4" (19 mm)
Specific Gravity	2.7
Tensile Strength	225 ksi (1700 MPa)
Flexural Strength	10,000 ksi (72 GPa)
Melting Point	2075° F (1121° C)
Color	White
Water Absorption	<1%
Alkali Resistance	High
Concrete Surface	Not Fuzzy
Corrosion Resistance	High
ZrO2 Content	19% by Weight

Product Description

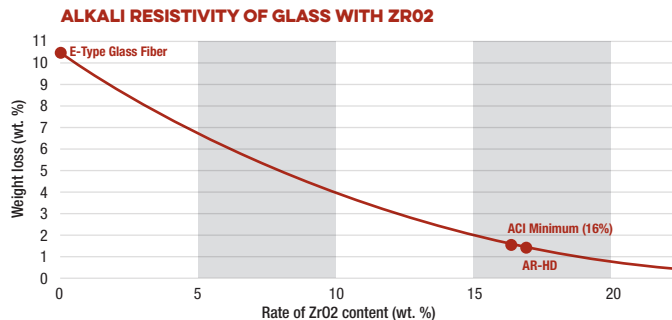
AR-HD glass fiber is made for high dispersion in wet applications and products. To assure long-term performance, AR-HD is made with 16% zirconia content.

Application

AR-HD is a high integrity strand, designed for wet, low fiber content applications and products such as floor slabs and mortar. NYCON-AR-HD can maximize strengths in low fiber content concrete products. NYCON-AR-HD is virtually invisible at the surface, which is of benefit in all applications.

Advantages/Benefits

- Excellent mechanical bond with the concrete.
- Reduces the formation of plastic shrinkage cracking in concrete.
- Provides multi-dimensional reinforcement.
- Improves impact resistance of concrete.
- Enhances durability and toughness of concrete.
- Excellent, "no fuzz" finishability.
- Applicable in dry or wet mix applications.



All products tested at 176°F for 200 hours in saturated alkali solution

NYCON

Mixing

AR-HD can be added directly to the wet mixing system during or after the batching of the ingredients and then mixed. The addition of NYCON-AR-HD at the normal recommended dosage rate does not require any mix design or application changes. A water reducer or super-plasticizer is recommended in concrete products where improved workability and finishability are desired.

Storage and Shelf Life

NYCON products should be stored in dry warehouse. Protect product from the rain.

Packaging

- **Standard Packaging:** (25) 44 lb (20 kg) bags, 1,100 lbs per pallet
- Custom packaging also available.

Tooling & Finishing

Fiber reinforced concrete can be finished by most finishing techniques. AR-HD does not affect the finishing characteristics of concrete. AR-HD can be used in power/hand troweled concrete, colored and broom finished concrete.

AR-HD can be pumped and placed using conventional equipment. Hand screeds can be used, but vibratory and laser screeds are recommended to provide added compaction and bury surface fibers.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY

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