



FABPROTM Polymers'
OMEGATM V

Steel Reinforcing Fiber

The carbon steel fibers in OMEGATM V meet the requirements of ASTM A820/A820M, Type V "Standard Specification for Steel Fibers for Fiber-Reinforced Concrete" and are approved for use in composite metal deck systems by the Steel Deck Institute.

RECOMMENDED FOR USE IN:

- SOG application, to increase impact and shatter resistance
- Composite metal deck systems
- Driveways & loading areas, to increase fatigue strength
- Pavement, parking lots and overlays
- Applications where reducing plastic shrinkage & settlement cracks are important
- Applications where controlling drying shrinkage & temperature cracks are important
- Shotcrete



FEATURES

FABPRO POLYMERS' OMEGATM V Steel Reinforcing Fiber is a low carbon, cut sheet, steel fiber. This industry proven fiber provides a reinforcement system that addresses restrained shrinkage in concrete slabs and pavings. The OMEGATM V Steel Fibers are uniformly distributed throughout the concrete to assure the owner, contractor and engineer excellent crack control.

OMEGATM V Steel Reinforcing Fiber can significantly enhance direct tensile strength and eliminate WWM and rebar in residential, commercial and industrial applications. OMEGATM V Fiber meets the requirements of ATSM A820/A820M, Type V "Standard Specification for Steel Fibers for Fiber-Reinforced Concrete" and is also approved for use in composite metal deck systems by the Steel Deck Institute.

BENEFITS

Versus rebar and WWM, OMEGATM V Fibers:

- Are always positioned properly when mixed according to ASTM C94/C94M.
- Save time and money.
- Improve impact and abrasion resistance.
- Enhance durability and toughness.
- Eliminate the on-the-job safety concerns associated with using WWM and rebar.

PERFORMANCE CHARACTERISTICS

Specific Gravity	7.86
Melting Point	2760°F (1516°C)
Ignition Point	1500°F (816°C)
Absorption	Nil
Tensile Strength	140 - 180 ksi (966 - 1242 MPa)
Fiber Length	1.5" (38mm)
Aspect Ratio	38
Fiber Count	2,000 fibers/lb (0.45 kg)

GUIDELINES FOR USE

DOSAGE: OMEGA™ V Fibers are typically added at a dosage rate of 25 lb/yd³ (14.8 kg/m³) to 55 lb/yd³ (32.6 kg/m³). Other dosages may be acceptable depending on the application, local specifications, and practices.

MIXING, PLACING, AND FINISHING: OMEGA™ V Fibers are packaged in pre-measured ready-for-use bags, designed to be loaded into the trucks before, during or after batching. Please follow proper mixing procedures as specified in ASTM C94/C94M.

OMEGA™ V Fibers 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.

Normal finishing equipment and techniques can be used when finishing. Troweling blades should be kept flat for as long as possible to insure a fiber-free surface.

Standard practices detailed in ACI 544-3R for placing, finishing and curing fiber concrete should be followed when using OMEGA™ V Fibers.

ENGINEERING SPECIFICATIONS

OMEGA™ V Fibers are for the control of cracking due to drying shrinkage, thermal expansion and contraction, and increased impact, abrasion and shatter resistance. OMEGA™ V Fibers from FABPRO POLYMERS comply with applicable building codes and ASTM C1116/C1116M Section 4.1.3, Type I, and are approved for use in composite metal deck systems by the Steel Deck Institute.

OMEGA™ V should be specified for use in concrete slabs:

- To limit the width of any cracks that might occur between the joints
- To provide superior crack control
- To improve impact resistance
- To enhance aggregate interlock at the joints
- To control drying shrinkage cracking and temperature cracking

FABPRO's OMEGA™ V Fibers should not be used to replace structural, load-bearing reinforcement. OMEGA™ V Fibers should not be used as a means of reducing thickness of concrete sections below original design, nor to increase joint spacing past those dimensions suggested by PCA and ACI industry standard guidelines.

STORAGE AND HANDLING: OMEGA™ V Fibers should be stored at temperatures below 140°F (60°C). Avoid storing near strong oxidizers and avoid sources of ignition. Use caution when stacking to avoid unstable conditions. Store in a sprinkled warehouse.

PACKAGING: OMEGA™ V Fibers are available in 55 lb (25 kg) degradable bags. The bags are palletized and stretch-wrapped to prevent damage from shipping and handling.

SAFETY DATA SHEETS: OMEGA™ V Fiber

For additional product information, contact your local sales representative or Customer Service at (800) 821-4391.

