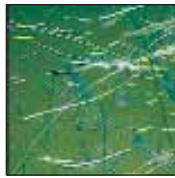
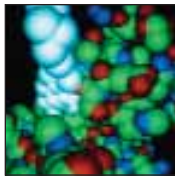




Knowledge • Technology • Success



KNOWLTON TECHNOLOGIES Engineered Composites & Media

Since 1808, companies have turned to Knowlton's knowledge, technology resources and service expertise to eliminate technical obstacle and structurally sound products and processes for wet laid substrates and solvent saturated media. We **embrace** science, creating all kinds of exotic structured media – sometimes from materials deemed next-to-impossible to include in a wet laid process. Where others may take months or years – or completely give up – Knowlton engineers often can successfully trial complicated products in a few hours, or a few days.

Knowledge. Technology. Success.

When the stakes are high, challenge us!
Even if you cannot imagine how to put a material in a web,
we can – and do – or it can't be done!

Knowlton's engineered composites provide light-weight, energy-saving structural integrity, increased thermal endurance, enhanced physical, electrical and chemical performance, and abrasive resistance for specialty barriers, laminates and friction material.

Wet laid non-woven composites and media:

- Custom designed composites and media
- Toll manufacturing
- Manufacturing and prototyping machines
- Solvent saturation and impregnation services
- Many webs, veils, composites and media available
- Rolled and sheeted materials
- Converting services available, (sheeting, slitting, trimming, cold lamination)
- On-site material and process laboratories

Markets served:

- Pre-preg
- Preformed, compression molded media
- Fiber mat
- Moldable thermoplastic mat
- Mineral filled
- Mandrel wrap
- Heat sink
- Automotive insulation
- Friction materials
- Filtration media
- Medical reagent
- Pharmaceutical
- Laminate abrasion, surfacing, UV
- Absorbent and Adsorbate
- Flame retardant
- Chemical delivery systems
- Corrosion protection
- Fragrance delivery
- Cushion stock
- Sound abatement
- Thermal insulation
- Gasketing
- Witness papers
- Desiccant
- Battery components
- Carbon filled
- Coalescer
- Veil systems
- Fuel cell
- Security
- Ballistics

Saturation systems

- Phenolic Resin
- Single step Epoxy
- Acrylic
- Oil modified
- Flame retardants
- PVA
- PVOH
- Other solvent or Aqueous resins, upon request

Materials processed into webs, mats and veils

- Cellulose, wood, non-woody, cotton, etc.
- Carbon fibers
- Carbon powders
- Glass fibers
- Aramids
- Ceramics
- Metallic oxides
- Polyester
- Nylon
- Polyethelene
- Diatoms
- Clays
- Nitriles
- Cashew shell extract powders
- Graphites
- Thermoset and thermoplastic fibers & particles
- Novaloid fibers
- Natural organic materials, vegetation, hair, etc.
- Metal fibers and powders
- PPS
- Basalt fiber
- PBI
- Spun mineral fibers (PMF)
- Calcium metasilicate (ground mineral fibers)
- Cork
- Acrylic pulp/ fibers
- Binder fibers
- Ground rock & mineral
- Nano materials-polymetric, clay, carbonacious

