FEBRUARY2011MATERIALSUPDATE

Material ConneXion®

As part of our promise to provide our clients with the newest and most innovative materials sourced from around the world, we are pleased to present our monthly Materials Update. Here you will find the latest materials to have been added to the database, upon their acceptance by our regular jury process.

These materials can be seen online and on-site at our New York location. Selected materials are also available at our Cologne, Daegu, Milan, and Bangkok locations; please call or email us at any of the addresses listed for more information.

Interested in these materials but not a client? Our subscription-based Materials Library is the world's largest library of advanced, innovative and sustainable materials and processes. With 45-60 new materials added every month, our libraries around the world give you immediate access to over 4,500 materials onsite and online, Material Specialists and Monthly Updates on what's new.

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FEBRUARY2011MATERIALSUPDATE

Material ConneXion®

CATEGORY INDEX

- Carbon
- Cement
- Metal
- Glass
- Polymer
- Ceramic
- Natural
- Process

MC#: 0071-05

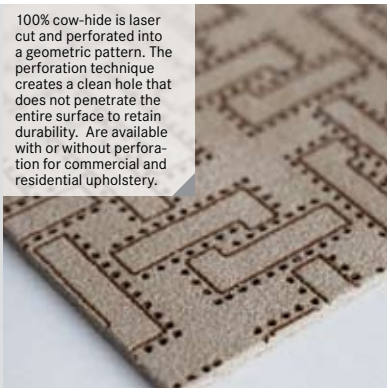
Cowhide embossed with a large, intricate pattern. The raised portion of the leather is tipped with a tone-on-tone color, mimicking the look of traditional tooled leather. The hides are available in 3 colors with custom colors are possible. Applications are for upholstery.

MC#: 0071-06

Lightly distressed, surface decorated, smooth leather textiles. These durable upholstery leathers are laser-cut and perforated for visual and tactile effect. Because of the pure aniline dyes used, the color appears slightly two-toned and varied. Applications are for upholstery.

MC#: 0071-07

100% cow-hide is laser cut and perforated into a geometric pattern. The perforation technique creates a clean hole that does not penetrate the entire surface to retain durability. Are available with or without perforation for commercial and residential upholstery.



MC#: 0071-08

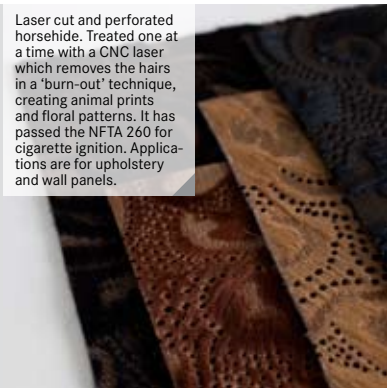
Stain resistant leather that is suitable for health-care applications. These hides have a highly resistant semi-aniline topcoat that is blood and urine resistant according to AATCC 130 for soil release, enabling it to be specified for health-care upholstery.

MC#: 0071-09

Multi-toned metallic pigmented leather with a finish that has high luster and is transparent, increasing the 'depth' of color. These leathers are chromium tanned with a vegetable retannage with finishing products used to soften the finish. Applications are for upholstery.

MC#: 0071-10

Laser cut and perforated horsehide. Treated one at a time with a CNC laser which removes the hairs in a 'burn-out' technique, creating animal prints and floral patterns. It has passed the NFTA 260 for cigarette ignition. Applications are for upholstery and wall panels.



MC#: 0071-11

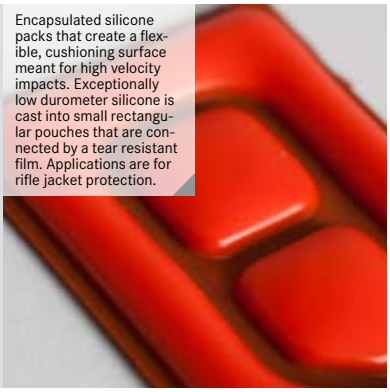
'Plaid-embossed' leather. This leather is embossed with a pattern consisting of criss-crossed horizontal bands in 5 different colors but custom colors are possible. Applications are for upholstery.

MC#: 3034-06

Formaldehyde- and phenol-free decorative surface panels that are an alternative to standard HPL. The core of these panels consists of 100% sugarcane which is strong and lightweight and is an alternative to the phenol formaldehyde traditionally used for HPL panels.

MC#: 5086-08

Encapsulated silicone packs that create a flexible, cushioning surface meant for high velocity impacts. Exceptionally low durometer silicone is cast into small rectangular pouches that are connected by a tear resistant film. Applications are for rifle jacket protection.

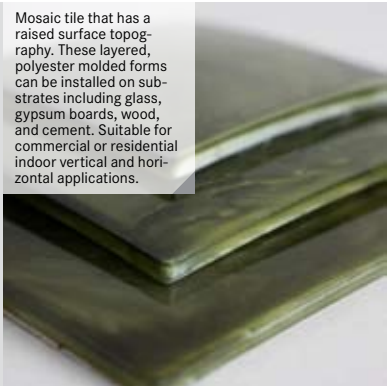


MC#: 5086-12

Tiny silicone spheres that can be used as malleable, 'moldable' shock absorbers. Using a technique that relies on the surface energy of silicone, small solid spheres of the material are produced quickly and economically by dropping small amounts into a heated bath of water.

MC#: 5463-06

Mosaic tile that has a raised surface topography. These layered, polyester molded forms can be installed on substrates including glass, gypsum boards, wood, and cement. Suitable for commercial or residential indoor vertical and horizontal applications.



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FEBRUARY2011MATERIALSUPDATE

Material ConneXion®

CATEGORY INDEX

- Carbon
- Cement
- Metal
- Glass
- Polymer
- Ceramic
- Natural
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MC#: 5597-05

Upholstery fabric with a filigree texture. Compared to high quality aniline leather, it exhibits twice the air permeability and lets through 50% more water vapor. It consists of 55% PU and 45% cotton knit. Applications are for commercial furniture and the automotive industry.

MC#: 5597-06

Polyurethane (PU) upholstery fabric with leather structure. This fabric consists of 55% PU and 45% knitted cotton and exhibits a fine calfskin optic. It is highly breathable and offers high seating comfort. Applications are for commercial furniture and car seat covers.

MC#: 6074-02

Textile made from 100% Eco Intelligent Polyester, the recycled fiber certified as a Technical Nutrient in the Cradle to Cradle methodolgy. This textile qualifies for heavy duty contract use with no wear after 80,000 double rubs. Applications are for upholstery, drapery, and panel fabric.

MC#: 6074-03

Reversible textile made from 100% Eco-Wool sheared from free range sheep that have not been toxic flea dipped, nor treated with chemicals or bleaches: For heavy duty contract use with no wear after 100,000 double rubs (reverse) or 33,000 double rubs (face).

MC#: 6740-01

Plasterboard that contains graphite particulates in the board core. This offers high protection against high and low frequency electromagnetic radiation up to 10 GHz. Applications are for interior radiation and listening protection.

MC#: 6741-01

Roller shutter system that is made of extruded and perforated PP parts with geometrically punched holes along the length of the profile with an acoustic nonwoven fabric inside the hollow section. Applications are for offices, banks, and furniture-board partitions.

MC#: 6755-01

Textile made from 100% cotton. These loom woven textiles create complex geometric patterns that measure 210 cm (82 in) wide and have a repeat width of 17.5 cm (6.8 in), length 2.5 cm (1 in). Applications are for residential upholstery and home accessories.

MC#: 6756-01

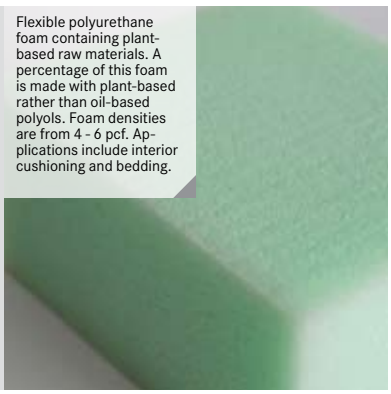
Electrospun nanofibers of inorganic materials that give properties such as high surface area, good connectivity and lower inner electrical resistivity. These fibers are produced by the electrospinning process, creating nano fibers from a liquid.

MC#: 6757-01

Quick-drying flexible polyurethane foam made through an emission-free manufacturing process. This reticulated foam is produced by Variable Pressure Foaming (VPF). Current applications are in bedding and interior or exterior seating.

MC#: 6757-02

Flexible polyurethane foam containing plant-based raw materials. A percentage of this foam is made with plant-based rather than oil-based polyols. Foam densities are from 4 - 6 pcf. Applications include interior cushioning and bedding.



MC#: 6757-03

High-density flexible foam with enhanced breathability, pressure dispersion, and moisture absorption. It contains a percentage of plant-based raw materials using patented, emission-free VPF technology for lower environmental impact and better control of properties.

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FEBRUARY2011MATERIALSUPDATE

Material ConneXion®

CATEGORY INDEX

- Carbon
- Cement
- Metal
- Glass
- Polymer
- Ceramic
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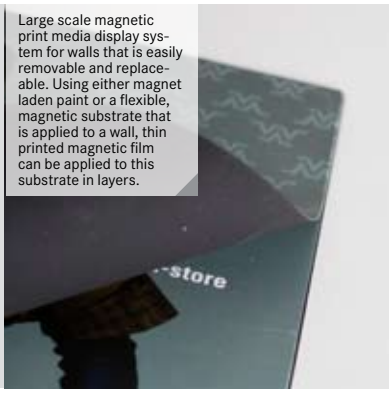
MC#: 6757-04

High resilience flexible polyurethane memory foam made with variable pressure foam technology (VPF). As a result it has improved elastic recovery. Current applications include bedding and pillows.

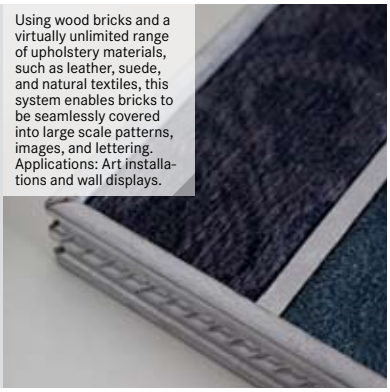
MC#: 6758-01

Large scale magnetic print media display system for walls that is easily removable and replaceable. Using either magnet laden paint or a flexible, magnetic substrate that is applied to a wall, thin printed magnetic film can be applied to this substrate in layers.



MC#: 6759-01

Using wood bricks and a virtually unlimited range of upholstery materials, such as leather, suede, and natural textiles, this system enables bricks to be seamlessly covered into large scale patterns, images, and lettering. Applications: Art installations and wall displays.

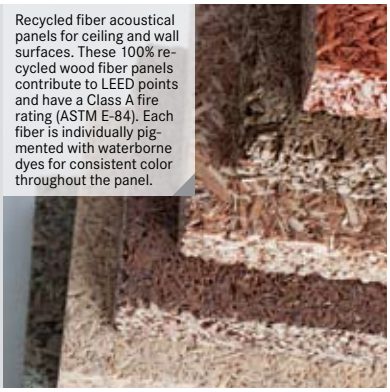


MC#: 6760-01

Weatherproof synthetic fibers available in full range of colors. These polyethylene fibers are dyed with non-toxic inorganic colorants to mimic the colors found in natural wood and abaca, or metallic finishes. Applications include outdoor furniture and accessories.

MC#: 6761-01

Recycled fiber acoustical panels for ceiling and wall surfaces. These 100% recycled wood fiber panels contribute to LEED points and have a Class A fire rating (ASTM E-84). Each fiber is individually pigmented with waterborne dyes for consistent color throughout the panel.



MC#: 6762-01

Recycled hardwood flooring made from solid wood strips headed for landfills. The manufacturer uses zero-formaldehyde adhesives and each wide plank features a VOC-free finish. There are over 20 different domestic and exotic species available.

MC#: 6763-01

Low-impact, water-based, cross-linked polymer paint specifically for fiber cement decking and flooring. The paints consist of 65-70% acrylic emulsion, 20-25% water, and 8-10% additives and pigment. The paints can be used in decking and flooring applications.

MC#: 6763-02

Low-impact, water-based, cross-linked polymer paint developed for fiber cement boards, walls, and fences. The paints consist of 30 - 60 % acrylic emulsion, 30 - 40 % water, and 0.5 - 8 % pigment and 3 - 8 % additives. Used in board, wall, and fencing applications.

MC#: 6764-01

100 % tree free paper. This paper is made from 80 % calcium carbonate and 20 % HDPE. It is processed in three stages, mixing the raw material, extruding it, and finishing with additives that help with printing. Applications are packaging, signage, and products.

MC#: 6765-01

Two-way stretch high-performance textile. This textile consists of 85% polyamide and 15% elastane. It has high pilling and abrasion resistance, and high breathability and thermal protection. Applications include sports apparel, outdoor wear, and consumer products.

MC#: 6765-02

Two-way stretch high performance textile consisting of 57% polyamide, 28% polyester and 15% elastane. It has high pilling and abrasion resistance, good breathability, thermal protection, and is durable and resistant to heavy use. Applications include sports apparel.

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MC#: 6766-01

Decorative ceramic tiles. These ceramic tiles consist of clay with a glaze top coat. They are durable, anti-bacterial, chemical resistant, and have excellent deodorization properties. Applications are interior and exterior building materials and flooring.

MC#: 6767-01

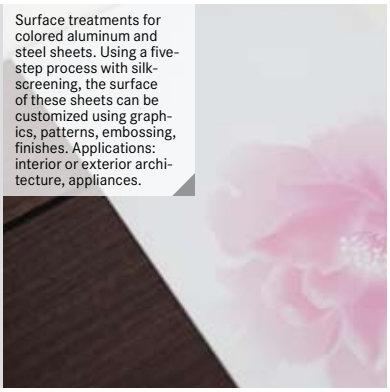
Ultra-black carbon-based material consisting of a 1:1 blend of carbon and polymer wax in pellet or granule form. The pellets contain no VOCs and have an "ultra high blackness." Applications include reinforcements for industrial, automotive, and electrical materials.

MC#: 6768-01

VOC-free wood/polymer laminate. This material consists of 90% ABS and 10% natural wood. The laminate blends natural wood with ABS through heat and pressure, without the use of adhesives, for a low-cost, nontoxic veneer material that maintains the look of wood.

MC#: 6769-01

Surface treatments for colored aluminum and steel sheets. Using a five-step process with silk-screening, the surface of these sheets can be customized using graphics, patterns, embossing, finishes. Applications: interior or exterior architecture, appliances.

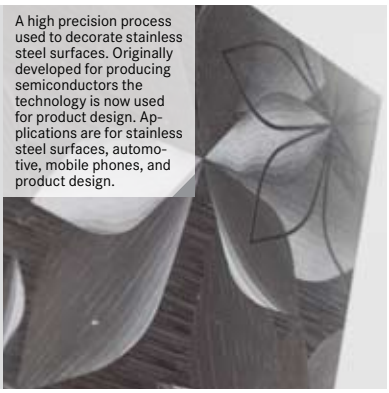


MC#: 6770-01

Process for customization of metal surfaces using multiple techniques to customize metal surfaces including: die-cutting, CNC routing, laser engraving, injection molding, anodizing, painting, plating. Applications are for mobile phones, other small metal products.

MC#: 6771-01

A high precision process used to decorate stainless steel surfaces. Originally developed for producing semiconductors the technology is now used for product design. Applications are for stainless steel surfaces, automotive, mobile phones, and product design.



MC#: 6772-01

Rigid, painted jute fiber pressed ceiling tile that is suitable for restaurant use. The tile is Class A fire rated, contains 45% rapidly renewable material and has a high sound absorption rating. Current applications are for commercial ceilings.

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