

Examples Of Translucent Materials

In general, ancient alabaster is calcite in the wider Middle East, including Egypt and Mesopotamia, while it is gypsum in medieval Europe. Modern alabaster is most likely calcite but may be either. Both are easy to work... Famous individual types and quarries include from classical times Parian marble from Paros, used for the Venus de Milo and many other Ancient Greek sculptures, and Pentelic marble, from near Athens, used for most of the Parthenon sculptures, and by the Romans. Carrara marble from northern Italy was used by the Romans, and very extensively up to recent decades, when the pure white statuario grade more or less ran out. This was used by Michelangelo and other Renaissance... Chemically, gypsum is a hydrous sulfate of calcium, whereas calcite is a carbonate of calcium. As types of alabaster, gypsum and calcite have similar properties, such as light color, translucence, and soft stones that can be carved and

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sculpted; thus the historical use and application of alabaster for the production of carved, decorative artefacts and objets d'art. Calcite alabaster also is known as onyx-marble, Egyptian alabaster, and Oriental alabaster, which terms usually describe either a compact, banded travertine stone or a stalagmitic limestone colored with swirling bands of cream and brown. c9488bd0e5 Lamination may be applied to textiles, glass, wood, or other materials. Laminating paper in plastic makes it sturdy, waterproof, and erasable. Laminating metals and electronic components may provide electrical insulation and other benefits. c9488bd0e5

Transparency and translucency In other words, a translucent material is made up of components In the field of optics, transparency (also called pellucidity or diaphaneity) is the physical property of allowing light to pass through the material without appreciable scattering of light. Translucency (also called translucence or translucidity) is the physical property of allowing light to pass through the material (with or without scattering of light). The opposite property of translucency is opacity. In other words, a translucent material is made up of components with different indices of refraction, while

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a transparent material is made up of components with a uniform index of refraction. Other categories of visual appearance, related. Transparent materials appear clear, with the overall appearance of one color, or any combination leading up to a brilliant spectrum of every color. On a macroscopic scale (one in which the dimensions are much larger than the wavelengths of the photons in question), the photons can be said to follow Snell's law. either of the two interfaces, or internally, where there is a change in the index of refraction. It allows light to pass through but the light does not necessarily follow Snell's law on the macroscopic scale; the photons may be scattered at either of the two interfaces, or internally, where there is a change in the index of refraction c9488bd0e5

Marble sculpture This gives an attractive soft appearance which is especially good for representing human skin, and which can also be polished. Journal of Vision. doi:10. 1167/4 - Marble has been the preferred material for stone monumental sculpture since ancient times, with several advantages over its more common geological "parent" limestone, in particular the ability to absorb light a small distance into the surface before refracting it in

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subsurface scattering. ; et al. 4 (8): 133. BCE present), Encyclopedia of Sculpture Fleming, Roland W. "Perceiving Translucent Materials". (2004)

Lamination A laminate is a layered object or material assembled using heat, pressure, welding, or adhesives. Various coating machines, machine presses and calendering equipment are used. processes, depending primarily on the type or types of materials to be laminated. The materials used in laminates can be identical or different, depending Lamination is the technique/process of manufacturing a material in multiple layers, so that the composite material achieves improved strength, stability, sound insulation, appearance, or other properties from the use of the differing materials, such as plastic

Some minerals exhibit unusual optical phenomena, such as asterism (the display of a star-shaped luminous area) or chatoyancy (the display of luminous bands, which appear to move as the specimen is rotated). A list of such phenomena is given below.

Metal matrix composites

Concrete, reinforced concrete and masonry with cement, lime or

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mortar (which is itself a composite material) as a binder c9488bd0e5 The amount of daylight received in an internal space can be analyzed by measuring illuminance on a grid or undertaking a daylight factor calculation. Computer programs such as Radiance allow an architect or engineer to quickly calculate benefits of a particular design. The human eye's response to light is non-linear, so a more even distribution of the same amount of light makes a room appear brighter. c9488bd0e5 Advanced composite materials, often first developed for spacecraft and aircraft applications c9488bd0e5 == Common... == c9488bd0e5 == Temporary dressings == c9488bd0e5 Ceramic matrix composites (composite ceramic and metal matrices) c9488bd0e5 Lustre varies over a wide continuum, and so there are no rigid boundaries between the different types of lustre. (For this reason, different sources can often describe the same mineral differently. This ambiguity is further complicated by lustre's ability to vary widely within a particular mineral species). The terms are frequently combined to describe intermediate types of lustre (for example, a "vitreous greasy" lustre). c9488bd0e5 Most colourants can be classified as dyes or pigments, or containing some combination of these. Typical dyes are formulated as solutions, while

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pigments are made up of solid particles suspended and are generally suspended in a vehicle (e.g., linseed oil). The colour a colourant imparts to a substance is mediated by other ingredients it is mixed with such as binders and fillers are added, for example in paints and inks. In addition, some colourants impart colour through reactions with other substances.

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Lustre (mineralogy) transparent or translucent, and have a high refractive index (of 1. The word traces its origins back to the Latin lux, meaning "light", and generally implies radiance, gloss, or brilliance. Minerals with a true adamantine lustre are uncommon, with examples including Lustre (Commonwealth English) or luster (American English; see spelling differences) is the way light interacts with the surface of a crystal, rock, or mineral. 9 or more) c9488bd0e5

The earliest ceramics made by humans were fired clay bricks used for building house walls and other structures. Other pottery objects such as pots, vessels, vases and figurines were made from clay, either by itself or mixed

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with other materials like silica, hardened by sintering in fire. Later, ceramics were glazed and fired to create smooth, colored surfaces, decreasing porosity through the use of glassy, amorphous ceramic coatings on top of the crystalline ceramic substrates. Ceramics now include domestic, industrial, and building products, as well as a wide range of materials developed for use in advanced ceramic engineering, such as semiconductors. c9488bd0e5 Composite materials can... c9488bd0e5 Composite wood such as glulam and plywood with wood glue as a binder c9488bd0e5

Colourant color of a material or surface. Colourants can be used for many purposes including printing, painting, and for colouring many types of materials such as A colourant/colour additive (British spelling) or colorant/color additive (American spelling) is a substance that is added or applied in order to change the color of a material or surface. Colourants work by absorbing varying amounts of light at different wavelengths (or frequencies) of its spectrum, transmitting (if translucent) or reflecting the remaining light in straight lines or scattered. Colourants can be used for many purposes including printing, painting, and for colouring many types of

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materials such as foods and plastics c9488bd0e5

Ceramic any of the various hard, brittle, heat-resistant, and corrosion-resistant materials made by shaping and then firing an inorganic, nonmetallic material, such A ceramic is any of the various hard, brittle, heat-resistant, and corrosion-resistant materials made by shaping and then firing an inorganic, nonmetallic material, such as clay, at a high temperature. Common examples are earthenware, porcelain, and brick c9488bd0e5

The word ceramic comes from the Ancient Greek word κεραμικός (keramikós), meaning "of or for pottery" (from κέραμος (kéramos) 'potter's clay, tile, pottery'). The earliest known mention of the root ceram- is the Mycenaean Greek ke-ra-me-we, workers of ceramic, written in Linear B syllabic... c9488bd0e5 Typical engineered composite materials are made up of a binding agent forming the matrix and a filler material (particulates or fibres) giving substance, e.g.: c9488bd0e5

Composite material composite material (also composition material) is a

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material which is produced from two or more constituent materials. These constituent materials have notably dissimilar chemical or physical properties and are merged to create a material with properties unlike the individual elements. Composite materials with more than one distinct layer are called composite laminates. Within the finished structure, the individual elements remain separate and distinct, distinguishing composites from mixtures and solid solutions. These constituent materials have notably A composite or composite material (also composition material) is a material which is produced from two or more constituent materials c9488bd0e5

A range of terms are used to describe lustre, such as earthy, metallic, greasy, and silky. Similarly, the term vitreous (derived from the Latin for glass, vitrum) refers to a glassy lustre. A list of these terms is given below. c9488bd0e5 Of the many different types of marble the pure white ones are generally used for sculpture, with coloured ones preferred for many architectural and decorative uses. The degree of hardness is right to carve without too much difficulty, but still give a very durable result, if not exposed to acid rain or seawater. c9488bd0e5 There are different lamination

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processes, depending primarily on the type or types of materials to be laminated. The materials used in laminates can be identical or different, depending on the object to be laminated, the process and the desired properties.

Dental material There are many different types of dental products, and their characteristics vary according to their intended purpose. ultimately limits the strength of the materials, since harder materials need more energy to manipulate. The type of filling material used has a minor effect Dental products are specially fabricated materials, designed for use in dentistry

The proportion of direct to diffuse light impacts the amount and quality of daylight. "Direct sunlight" reaches... Colourants, or their constituent compounds, may be classified chemically as inorganic (often from a mineral source) and organic (often from a biological source... Reinforced plastics, such as fiberglass and fibre-reinforced polymer with resin or thermoplastics as a binder == Materials == A

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temporary dressing is a dental filling which is not intended to last in the long term. They are interim materials which may have therapeutic properties. A common use of temporary dressing occurs if root canal therapy is carried out over more than one appointment. In between each visit, the pulp canal system must be protected from contamination from the oral cavity, and a temporary filling is placed in the access cavity. Examples include: c9488bd0e5

Alabaster In archaeology, the term alabaster includes objects and artefacts made from two different minerals: (i) the fine-grained, massive type of gypsum, and (ii) the fine-grained, banded type of calcite. Archaeologists, geologists, and the stone industry have different definitions for the word alabaster. to diminish the translucency of the alabaster and to produce an opacity suggestive of true marble, the statues are immersed in a bath of water and heated Alabaster is a soft rock used for carvings and as a source of plaster powder c9488bd0e5

Daylighting (architecture) Energy savings can be achieved from the reduced use of artificial (electric) lighting or from passive solar heating. Particular

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attention is given to daylighting while designing a building when the aim is to maximize visual comfort or to reduce energy use. glazing, but can also use alternative materials. For example, the Lyme Art Association Gallery utilizes translucent white muslin laylights below its skylights Daylighting is the practice of placing windows, skylights, other openings, and reflective surfaces so that direct or indirect sunlight can provide effective internal lighting. Artificial lighting energy use can be reduced by simply installing fewer electric lights where daylight is present or by automatically dimming or switching off electric lights in response to the presence of daylight - a process known as daylight harvesting c9488bd0e5

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