

LuminOre's Environmental Impact

LuminOre Composite Metals were developed as a cost effective and environmentally sound alternative to solid cast foundry pieces and forgings as well as an alternative to metallic paints, coatings, and finishes. The LuminOre metalizing process reduces VOC's, disposable liquid waste, consumption of natural resources and consumption of energy.

With LuminOre materials, vapor exposure to the environment and to the applicator is limited. LuminOre Composite Metals contain 42 ½ grams Volatile Organic Compounds/Liter and effectively sprays on in a one-coat application. Comparatively, average water based coatings can contain over 240 grams VOC/Liter and require multiple coat applications. LuminOre Composite Metal is more than 75% metal by weight, so in a liquid state the amount of vapor is limited because the material is 95% solid.

LuminOre is a cold alloy process and therefore, produces no burn pollution. Foundries burn resources (literally). Tremendous heat must be generated to keep metal in a molten state and whether that heat is generated using coal, oil, gas or other combustibles, those resources go up in flames. Additionally, the pollution generated from the burn is tremendous, as well as the outgasing of pollutants from the molten metals.

When properly applied, LuminOre materials will not delaminate, crack, chip, or peel. LuminOre materials have been subjected to 30 years equivalent corrosion and weatherization testing demonstrating zero breakdowns of materials. LuminOre materials also show zero breakdowns under UV light.

LuminOre Composite Metals have a low VOC content, an insignificant leach rate (1,020 parts per billion). The materials are non-electrically conductive, anti-corrosive, and do not break down or contaminate. LuminOre materials do not produce liquid waste requiring hazardous material disposal. The metals used in LuminOre Materials are recycled metals. These features boast an incredibly innovative, environmentally sound technology that offers astronomical potential for making our planet a safer place to live.

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