

Diamond Composites: Open-Source Release Document

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Author: Marie Seshat Landry

Contact: marielandryceo.com

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Summary of Diamond Composites

Diamond Composites is a sustainable, hemp-derived material innovation that combines:

- Hemp-Derived Carbon Nanosheets (HDCNS) for structural strength and conductivity.

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- Hemp Lignin as a curing agent, contributing elasticity and biodegradability.
- Hempseed Oil as the matrix binder for flexibility and cohesion.

Applications:

This material has potential applications in:

- Electronics: Conductive coatings and energy storage.
- Construction: Lightweight and durable building materials.
- Automotive/Aerospace: Lightweight composites for efficiency.
- Consumer Goods: Eco-friendly products.

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Encouragement of Collaboration

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By declaring this work open source, I invite researchers, industries, and innovators worldwide to:

- Share findings and improvements to advance the field of sustainable materials.
- Use the knowledge and techniques described here to address pressing global challenges.

Together, we can build a more sustainable future.

Marie Seshat Landry

Inventor, Diamond Composites