

# ZEN Graphene Solutions Announces Encouraging Aluminum Metal Composite and Coating Results Using ZEN Graphene Material

01.10.2019 | [Newsfile](#)

Thunder Bay, October 1, 2019 - ZEN Graphene Solutions Ltd. (TSXV: ZEN) ("ZEN" or the "Company") is pleased to announce additional research and development results using a ZEN Graphene additive in a sintered aluminium metal composite and ZEN Graphene in a corrosion-inhibiting coating.

The Company very recently received additional encouraging preliminary results from the University of British Columbia-Okanagan (UBC-O) which has used ZEN's Graphene to enhance the performance of aluminum casting alloys. UBC-O has mixed small volumes of Graphene with an aluminum powder which was then sintered in Spark Plasma Sintering (SPS) equipment. Preliminary results indicate that the Graphene resulted in a significant increase in the electrical conductivity of the material with a relatively small Graphene loading. Dr. Bichler commented: "Aluminum with increased conductivity would have vast industrial applications." Test work will continue to optimize the Graphene loading to optimize the electrical conductivity of the aluminum along with improvements in the thermal and mechanical properties.

Additionally, UBC-O reported encouraging preliminary results on the use of ZEN's Graphene in an epoxy corrosion-inhibiting coating for steel. UBC-O tested four samples of steel: one uncoated, one coated with epoxy only, one coated with an epoxy-graphite mixture, and one with an epoxy-Graphene mixture. The four samples were then exposed to a corrosive, highly saline solution for 10 days after which the level of surface of corrosion was examined and quantified. The following preliminary observations were reported by UBC-O:

- Uncoated steel - 100% of surface corroded
- Epoxy-coated steel - 67% of surface corroded
- Epoxy-graphite mix coated surface - 93% of surface corroded
- Epoxy-Graphene mix coated surface - only 3% of surface corroded

These promising anti-corrosion results from the Epoxy-Graphene mix coated surface will be followed up by additional test work to optimize the Graphene loading in the epoxy resin to potentially develop an anti-corrosion coating application.

Dr. Francis Dubé commented: "We continue to be impressed with the creative research and development work being accomplished at UBC-O. These potential applications could lead to patents and significant markets for the Company. ZEN will continue to support UBC-O as per our 3 year Memorandum of Understanding signed in June of this year."

About ZEN Graphene Solutions Ltd.

[ZEN Graphene Solutions Ltd.](#) is an emerging graphene technology company with a focus on development of the unique Albany Graphite Project. This precursor graphene material provides the company with a competitive advantage in the potential graphene market as independent labs in Japan, UK, Israel, USA and Canada have demonstrated that ZEN's Albany Graphite easily converts (exfoliates) to graphene, using a variety of simple mechanical and chemical methods.

For further information:

Francis Dubé, Chief Executive Officer  
Tel: +1 (289) 821-2820  
Email: [drfdube@zengraphene.com](mailto:drfdube@zengraphene.com)

To find out more on [ZEN Graphene Solutions Ltd.](http://www.ZENGraphene.com), please visit our website at [www.ZENGraphene.com](http://www.ZENGraphene.com). A copy of this news release and all material documents in respect of the Company may be obtained on ZEN's SEDAR profile at [www.sedar.ca](http://www.sedar.ca).

### Forward Looking Statements

This press release contains forward-looking statements. This news release includes certain "forward-looking statements", which often, but not always, can be identified by the use of words such as "potential", "believes", "anticipates", "expects", "estimates", "may", "could", "would", "will", or "plan". These statements are based on information currently available to ZEN and ZEN provides no assurance that actual results will meet management's expectations. Although the Company believes that the expectations reflected in these forward-looking statements are reasonable, undue reliance should not be placed on them because the Company can give no assurance that they will prove to be correct. Since forward-looking statements address future events and conditions, by their very nature they involve inherent risks and uncertainties. Although ZEN believes that the assumptions and factors used in preparing the forward-looking information in this news release are reasonable, undue reliance should not be placed on such information, which only applies as of the date of this news release, and no assurance can be given that such events will occur in the disclosed time frames or at all. ZEN disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required by law. Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release. The Company's full disclosure can be found at <https://zengraphene.com/disclaimer/>

To view the source version of this press release, please visit <https://www.newsfilecorp.com/release/48368>

---

Dieser Artikel stammt von [Rohstoff-Welt.de](http://Rohstoff-Welt.de)

Die URL für diesen Artikel lautet:

<https://www.rohstoff-welt.de/news/335486--ZEN-Graphene-Solutions-Announces-Encouraging-Aluminum-Metal-Composite-and-Coating-Results-Using-ZEN-G>

Für den Inhalt des Beitrages ist allein der Autor verantwortlich bzw. die aufgeführte Quelle. Bild- oder Filmrechte liegen beim Autor/Quelle bzw. bei der vom ihm benannten Quelle. Bei Übersetzungen können Fehler nicht ausgeschlossen werden. Der vertretene Standpunkt eines Autors spiegelt generell nicht die Meinung des Webseiten-Betreibers wieder. Mittels der Veröffentlichung will dieser lediglich ein pluralistisches Meinungsbild darstellen. Direkte oder indirekte Aussagen in einem Beitrag stellen keinerlei Aufforderung zum Kauf-/Verkauf von Wertpapieren dar. Wir wehren uns gegen jede Form von Hass, Diskriminierung und Verletzung der Menschenwürde. Beachten Sie bitte auch unsere [AGB/Disclaimer!](#)

---

Die Reproduktion, Modifikation oder Verwendung der Inhalte ganz oder teilweise ohne schriftliche Genehmigung ist untersagt!  
Alle Angaben ohne Gewähr! Copyright © by Rohstoff-Welt.de -1999-2026. Es gelten unsere [AGB](#) und [Datenschutzrichtlinien](#).