

ZEN Graphene set to supply a virucidal coating for a minimum 100 million masks

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This week [ZEN Graphene Solutions Ltd.](#) (TSXV: ZEN) (“ZEN”) and Trebor RX Corp. (“Trebor”) [signed a Binding Letter of Intent](#) (LOI) that includes the initial purchase of ZEN’s patent pending graphene based virucidal coating for **a minimum of 100 million masks/filters** with pricing of these mask/filters being variable based on a number of factors.

This news follows the highly successful testing of ZEN’s graphene based silver colloidal coating [announced](#) on September 22, 2020. Some of the announcement highlights are shown below:

- ZEN’s Virucidal ink is [99% effective](#) against the **COVID-19 virus**.
- ZEN’s [Virucidal ink was still 99% effective](#) a minimum of 35 days after application to N95 mask material.
- ZEN is now developing plans to expedite commercialization of this product, pending regulatory approval.
- [ZEN has filed a provisional patent](#) for this graphene-based virucidal product.....
- Very significant virucidal activity was recorded and reported, achieving 99% inactivation of the virus for both samples in 3 separate tests each and verified through a second round of testing...”

But back to the latest potentially game changing news for ZEN of the LOI for a minimum of 100 million masks/filters from Trebor. An order of this size for a relatively small company like ZEN is highly significant. Greg Fenton, ZEN’s Chief Strategy Officer,

[commented](#) (Nov. 9, 2020):

“This is a historic day for ZEN. The signing of this significant commercial agreement is a watershed moment for our organization. Moreover, it is an honour for ZEN to partner with a Canadian company like Trebor and develop a 100% Canadian solution in the fight against the COVID-19 pandemic. The innovation of the Trebor Pro+ Respirator Mask will set a new standard in the mask industry and, combined with our viricidal coating, will bring a new level of safety for our front-line workers....”

Trebor’s CEO George Irwin agreed [stating](#): “This is truly a game changer in the PPE space....”



PR0+ Respirator Mask

It looks like the market also agrees with ZEN, up [358%](#) over the past 1 year, and up 293% since I wrote “[ZEN Graphene Solutions moves towards commercialization of virus-killing mask](#)” back on September 8, 2020.

ZEN Graphene Solutions stock price is up 358% over the past 1 year, and up 293% since September 8, 2020



[Source](#)

What we know so far is that ZEN and Trebor have signed a LOI and that Trebor is a Canadian personal protective equipment mask manufacturer with an initial production facility located in Collingwood, Ontario, Canada. The announcement on the binding LOI includes several key points:

1. Initial first year production is planned to use ZEN’s

patent pending graphene based viricidal coating for a **minimum of 100 million masks/filters.**

2. Pricing of these mask/filters being variable based on a number of factors.
3. This initial minimum order is for the first year and is **subject to Health Canada approvals.**
4. ZEN's viricidal coating will be used on Trebor's patent pending Pro+ Respirator Mask (Pro+) N95 mask and also on their 3-ply surgical mask.

For now, we can only speculate on what the commercial terms would be and what other agreements may follow. What we do know is that the global market demand for face masks is enormous, certainly in the billions. Some have even called the face mask [‘the world’s most valuable commodity’](#). It is estimated that production of the highly protective [N95 face masks in the United States](#) alone will increase to 180 million units per month by the end/winter months of 2020.

Demand for face masks is only increasing as global new COVID-19 cases continue to accelerate higher



[Source](#)

Under a Biden presidency it looks highly probable that face masks will be viewed more positively than what happened under Trump. Back in June 2020, CNN [quoted](#): “Biden says he would make wearing face masks mandatory for Americans amid coronavirus pandemic.” This week Biden has announced a new [COVID-19 taskforce](#) to begin work immediately and continue after he is sworn in as president on January 20.

Global daily new cases of COVID-19 have been accelerating and are now averaging a **staggering 600,000 new cases per day**, for a

total of [over 52 million cases now globally](#).

All of this should lead to very strong demand for face masks in the year ahead.

Beyond COVID-19 ZEN has many other potential areas and deals to commercialize their graphene. Some recent deals include a collaboration agreement on [Carbon Aerogels with German Aerospace Centre](#) and a partnership with [the Royal Canadian Navy](#) and Evercloak to test Graphene Oxide Dehumidification Membrane Technology.

To meet all this new demand ZEN has had to [double their lab space](#) starting January 1, 2020 and [announced](#) this week that ZEN will lease a 25,680 square feet space in Guelph, Ontario to become ZEN's new manufacturing facility and corporate headquarters. ZEN [stated](#): "The company expects to begin initial production in Q4 2020 for incorporation into masks, other PPE and for HVAC filters and prefilters."

A summary of ZEN Graphene Solutions



[Source](#)

Closing remarks

ZEN Graphene Solution's management is doing a tremendous job. Pivoting in 2020 to produce a viricidal graphene coating was a genius move. Of course COVID-19 will come and eventually go, but demand for industry leading graphene products looks set to boom this decade as the world learns more about the wonders of graphene.

ZEN Graphene Solutions has a market cap of C\$139M and right now appears to have the world at their feet.

Disclosure: *The author is long ZEN Graphene Solutions Ltd.
(TSXV: ZEN).*