

Performance Evaluation of Engine Exhaust Insulation Products - An Independent Study Comparing Firwin Removable and Permanent Insulation Products.

At recent annual Mining Diesel Emissions Council (MDEC) meeting in Toronto, Firwin Corp had the privilege of seeing its removable and permanent insulation solutions used as a basis for a comparative study on the performance of engine exhaust insulation products. The study was presented by Catalytic Exhaust Products (CEP), a provider of catalysts and Diesel Particulate Filters (DPFs) for diesel-powered vehicles, including underground mining vehicles.

Realizing that high exhaust temperatures are becoming increasingly essential in the proper performance of pollution control equipment, CEP insulates vehicle exhausts and catalysts, in order to maintain the exhaust temperature at a high enough level to ensure optimal catalyst / DPF performance.



The study compared 4 different types of Firwin insulation products (*standard 1" fiberglass blankets, MineWrap Mark II, MineWrap Mark III, and Firwin Hard Coat*) in the following areas:

- thermal insulation performance,
- heat transfer,
- insulation surface temperatures

- rock impact damage to the surface of insulation.

"This is a superb study on the performance characteristics of the various insulation product offerings from Firwin", notes Paul Herman, Firwin president. "It is important to keep in mind, however, that the best performing insulation in any category does not necessarily mean it is the right insulation for a particular application. For instance, while the study shows our MineWrap Mark III to be the top performer among our insulation blankets, for many applications this would be overkill, as well as being uneconomical. To use an analogy, one could compare it to buying a Hummer to do car pool for the kids", said Paul.

"It should also be noted that the Hard Coat insulation tested was only 1/2" thick, whereas the blankets were 1" thick", added Paul. "Not to take anything away from the study, which was quite professionally done and very informative. Indeed, the information gained from this independent study is quite valuable. Just a caveat to keep things in perspective".

To view the study in its entirety, please use the following link:[Engine Exhaust Insulation - Comparative Study.](#)

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