

Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods

21 June 2012

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Item 3 (b) of the provisional agenda

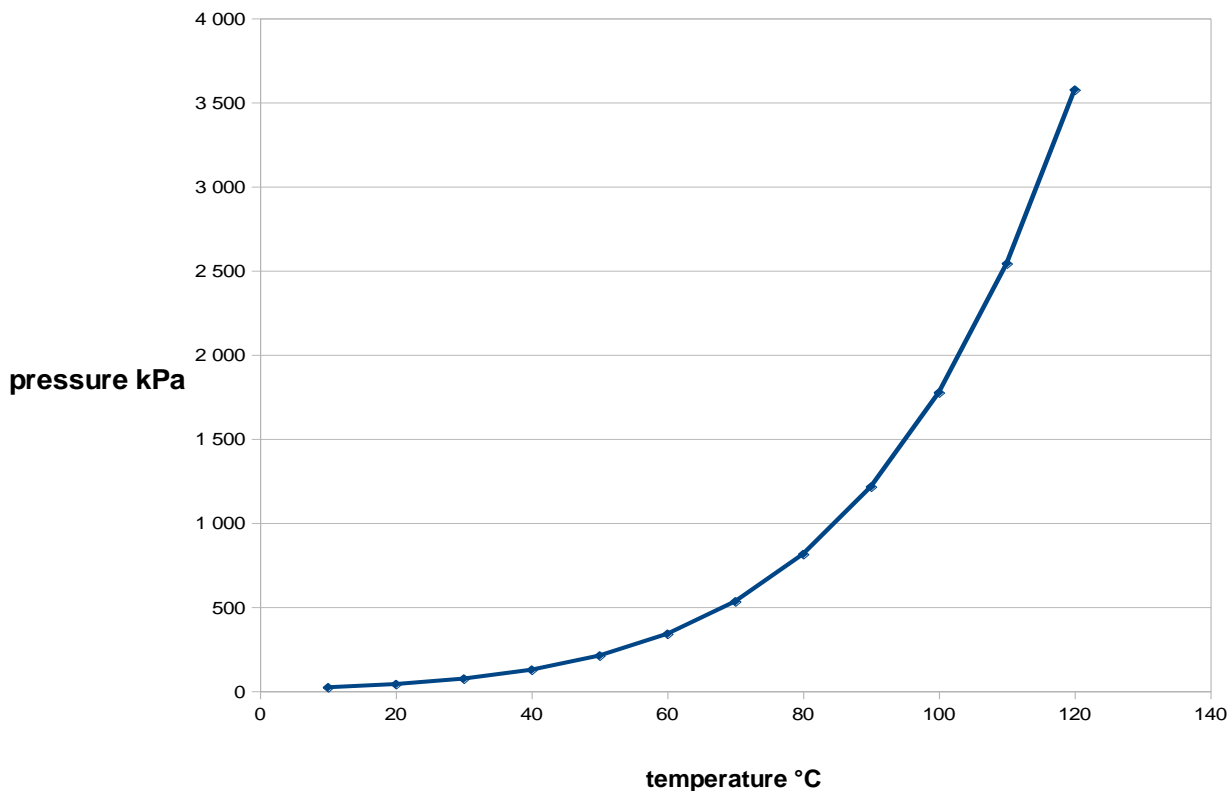
Listing, classification and packing: miscellaneous

Additional information concerning document ST/SG/AC.10/C.3/2012/33 “Introduction of a new entry for ammonia dispensers or cartridges for ammonia dispensers”

Transmitted by the expert from France

This document gives some technical data helping to understand the proposal in document ST/SG/AC.10/C.3/2012/33.

- 1) Vapour pressure over one of the products used to store ammonia (commercially known as “amminex” or “addamine” based on strontium salts).



This explains some values in the special provision .

The vapour pressure is similar to the one of an ammonia solution belonging to class 8 up to around 75°C then the production of ammonia raises and so does the pressure

Typically those cartridges are designed to work in an exhaust system of a car and are activated by its temperature.

The working pressure is comprised between 5 and 9 bars (85°C)

Integrity is guaranteed up to 20 bars (110°C) over that pressure, for safety reasons they are designed to vent, to avoid an explosion.

2) The two annexed slides illustrate how the cartridges look like, alone and when installed in a system. As well as their content. (strontium carrier salt).

The size ranges from 0,5 litre to 12 litre but this may vary depending on the manufacturer. However given the fact that they have to be installed in a car it is unlikely that much bigger systems will be produced.

ASDS system

faurecia

Emissions Control
Technologies

Complete System



Main Cartridge



AdAmmine™: Safe and compact solid. Controlled ammonia release on demand

Vacuum at room temperature – “Activation” required to degas ammonia

