



4th Annual Global Magnesium Industry Climate Protection Workshop – 18th May 2008

EU F-Gas policy

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Unit C.4 - Industrial Emissions & Protection of the ozone layer



EU F-Gas policy

- **Objectives & Scope**
- **Framework**
 - MAC Directive
 - F-Gas Regulation
- **Implementation**



EU F-Gas policy

Objectives and Scope

- **Key Objectives**

- Reduce emissions of fluorinated GHG covered by KP
- Contribute to achievement of EU Kyoto targets

- **General Scope**

- HFCs, PFCs and SF₆ (covered by Kyoto Protocol)
- Refrigeration/ AC equipment / Heat pumps
- Fire protection systems and extinguishers
- High Voltage Switchgear/equipment containing solvents
- Other (including mobile) products and equipment



EU F-Gas policy

Framework

I. Regulation (EC) No 842/2006 on certain fluorinated greenhouse gases

- Adopted 17 May 2006 (OJ L 161 dd. 14 June 2006)
- Entry into Force 24 June 2006
- Applicable directly for Member States and Industry

II. Directive 2006/40/ EC relating to emissions from air-conditioning systems in motor vehicles

- Separated to link with/amend EU vehicle type approval legislation
- Adopted 17 May 2006 (OJ L 161 dd. 14 June 2006)
- Transposition to Member State Legislation by 4 January 2008



Regulation (EC) No 842/2006 on certain fluorinated greenhouse gases

Key measures

Containment

Operators of stationary refrigeration/ air conditioning/ heat pump equipment/ Fire protection systems

- Preventing leakages
- Check frequently (defined intervals according to charge)
- Repair asap by certified personnel/ company

Recovery

Operators of stationary refrigeration/ air conditioning/ heat pump equipment/ Fire protection systems & extinguishers/ high voltage switchgear/ solvent equipment

- Collecting and storing F-gases from equipment for the purpose of recycling, reclamation, or destruction
- By certified personnel



Regulation (EC) No 842/2006 on certain fluorinated greenhouse gases

Key measures

Reporting

Producers/ importers/ exporters of (>1tonne) F-Gases in/from EU

- Quantities per substance
- Main categories of application
- Quantities recycled/ reclaimed/ destructed

Labeling

Manufacturers of refrigeration/ air conditioning/ heat pump equipment/ Fire protection systems & extinguishers/ switchgear/ containers

- “contains [F-] gases covered by the Kyoto Protocol”
- “Hermetically sealed system” (if appropriate)
- Chemical (accepted nomenclature) and quantity



Regulation (EC) No 842/2006 on certain fluorinated greenhouse gases

Key measures

Placing on the market prohibition [Annex II]

- Non-refillable containers [4/7/2008]
- Footwear [4/7/2006]
- Windows [4/7/2007-2008]
- Tyres [4/7/2007]
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Use prohibition

- SF₆ for filling tyres [4/7/2007]
- **SF₆ in magnesium die-casting except where <850kg/year [1/1/2008]**



Regulation (EC) No 842/2006 on certain fluorinated greenhouse gases

Key measures

Review

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- Assess whether the substitution of SF₆ in sand casting, permanent mould casting and high pressure die casting is technically feasible and revise use ban
- Review 850kg exemption threshold for SF₆ use in magnesium die casting

By 2009/10 - study to be launched in Q3/2008



EU F-Gas policy

Thank you for your attention

Further information

<http://ec.europa.eu/environment/climat/fluor/>