

THE ADR REGULATIONS - TRANSPORTATION OF GASES (TRANSPORTATION OF DANGEROUS GOODS BY ROAD)

The ADR regulations stipulate what Gases can be carried before the driver requires to be ADR trained.

The Gases, which we encounter, can be split into 4 main categories:

Toxic Gas:	Ammonia up to 50 units
Flammable Gas:	Acetylene, Propane, up to 333 units
Asphyxiant Gas:	Nitrogen, Oxygen, Fluorocarbons up to 1000 units
Empty Cylinders:	No limit

For each category there is a limit to the number of “units” which can be carried, these are the figures in red above. The calculation is based on a factor for each type of gas (50 per kg of toxic, 3 per m³ of flammable and 1 per kg of Asphyxiant).

To simplify matters EJM have opted for the limits set out below:

Ammonia	–	Not to be carried under any circumstances
Flammable Gas	–	Any 2 cylinders up to J size Acetylene (2.35m ³ each) plus one small propane (up to 13.2kg)
Asphixiant Gas	–	Up to 2 off size Y Oxygen (4.76m ³ each) and up to 360kg of Fluorocarbon refrigerant Up to 6 off size X nitrogen
Empty Cylinders	–	No limit (within carrying capacity)

The above cylinder limit should only be carried if, in conjunction with the remaining vehicle payload, the maximum load capacity is not exceeded. Cylinders should always be secured within the vehicle to prevent movement and Flammable cylinders should always be carried upright.

All vehicles, which are to carry gas, should display a Red (Flammable Gas) and Green (Compressed Gas) warning stickers, *and carry a 2kg dry powder fire extinguisher.*