

# d<sub>2</sub>p odour adsorber plastic technology



Inorganic d<sub>2</sub>p masterbatches and additives designed to inhibit the development of odours in plastic products or to prevent spoilage of perishable fruit and vegetables.



[www.d2p.net](http://www.d2p.net)

# d<sub>2</sub>p adsorber technology



d<sub>2</sub>p odour adsorber can be used as a plastic masterbatch, in powder or incorporated into liquid polymers. The product can also be used in packaging in a sachet.

## The Facts

- Our Odour Adsorber is a safe product, the active ingredient is widely used as a food additive, with an EU "E" code.
- FDA approved in 2012 for direct contact with consumables under 21 CFR 182.
- Used in medicinal containers to keep contents dry.
- The specific structure of our product enables it to act as a hydrocarbon, metal ion, vapour and gas adsorber (chemical sieve) to trap the (odour) molecules.
- The active substance used in our odour adsorber (d<sub>2</sub>p OA) is a naturally occurring mineral which inhibits the development of odour in plastic products.
- Suitable for conversion by all plastic processing technologies
- Helps to prevent discolouration
- Can be used as a general deodorizer and to combat mildew or mould.
- Range of applications include packaging, household appliances, food containers and medical appliances.
- Our Ethylene Adsorber (d<sub>2</sub>p EA) can prevent spoilage of perishable fruit, vegetables and flowers.
- Full support from Symphony's Technical and Marketing teams.

## OA (Odour Adsorber)



Eliminates odour from pigments and additives containing substances such as sulphur, amines, hydrogen sulphide and chlorine. Can be used as a general deodorizer and to combat mildew or mould.

<b>Composition</b>	Naturally occurring adsorbent
<b>MB Colour</b>	Clear to slightly white
<b>Mechanism</b>	Molecular sieve adsorbs odours and excess moisture in the air.
<b>Applications</b>	Car interiors, packaging, household appliances, food containers and medical appliances
<b>Addition Rate</b>	1.5 – 3% (MB) 0.3-0.8% (Powder)
<b>Odour</b>	None
<b>Stability</b>	The material is stable up to 300°C
<b>Storage</b>	Should be stored in cool, dry conditions away from sources of UV light. Has a shelf life of 12 months from date of supply.

## EA (Ethylene Adsorber)



Used to prevent spoilage of perishable fruit, vegetables and flowers by eliminating the ethylene gas which speeds up maturation/ripening. Extends shelf life and helps to reduce decay, mould, discolouration and wilting.

<b>Composition</b>	Inorganic chemical compound
<b>MB Colour</b>	Purple
<b>Mechanism</b>	Active ingredient oxidises ethylene
<b>Applications</b>	Recommended for food contact applications to reduce mould and preserve raw fruit and vegetables and delay ripening.
<b>Addition Rate</b>	3 - 5%
<b>Odour</b>	None
<b>Stability</b>	The material is stable up to 235°C
<b>Storage</b>	Should be stored in cool, dry conditions away from sources of UV light. Has a shelf life of 12 months from date of supply.

**Processing Information:** These d<sub>2</sub>p products can be incorporated into polymers and fibres and used in extrusion blow moulding as well as fibre and flexible and rigid packaging products. The masterbatch is incorporated into the polymer at the point of conversion via blow, cast, film and sheet extrusion, injection and blow moulding, coating and lamination.

**Disclaimer:** The information provided is general information. For specific applications, please consult our Technical Department. Supplies of d<sub>2</sub>p are conditional upon regulatory approval for the purposes concerned in the country or countries concerned.

## Symphony Environmental Ltd

6 Elstree Gate, Elstree Way, Borehamwood, Hertfordshire WD6 1JD, UK  
Tel: +44 (0)20 8207 5900 | Fax: +44 (0)20 8207 7632 | info@d2p.net

[www.d2p.net](http://www.d2p.net)

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