



## HOSTAPHAN® - The PET solution against mineral oil in food

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Food contaminated with mineral oil components (“MOSH” and “MOAH”) has been found repeatedly in recent years, both by official control laboratories and by consumer protection organisations. Food producers and retailers are faced with the challenge of reducing and eliminating this potentially harmful contamination in the food they sell.

The contaminated foods found have mostly been dry foodstuffs with long shelf life in carton or paper packaging. Beside some possible contamination picked up from machinery during harvest and processing, the main source of the contamination is understood to be the carton or paper packaging, in particular inks present in or on cartons and paper. Recycled paper often contains high amounts of MOSH and MOAH stemming from newspaper ink. Studies have shown that even food packed in virgin fibre carton printed with food grade inks picks up airborne MOSH and MOAH from outer transport packaging. During storage, the mineral oil components become airborne and migrate into the food. The concentration in the food increases with storage time.

In order to prevent the migration of mineral oil into food, a barrier is needed. Inner bags or layers of paper or polyolefins (PE or PP) provide no protection at all because they take up MOSH and MOAH from carton and allow it to pass through to the food quickly. The use of HOSTAPHAN® PET film in airtight packaging offers excellent, long-term protection from mineral oil, because PET is an excellent barrier. This is a combined effect of the low diffusion rate of substances through PET coupled with its chemical polarity: nonpolar MOSH and MOAH have no affinity for polar PET.

## MITSUBISHI POLYESTER FILM offers the following solutions

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### ■ Use of plastic laminates for inner bags

- HOSTAPHAN® RNK 12/PE laminate



### ■ Use of inner bags of PET sealing films

- HOSTAPHAN® RHS 20



### ■ Cardboard lamination with PET films

- HOSTAPHAN® RNCB 12/cardboard
- HOSTAPHAN® RNCB 12/cardboard/HOSTAPHAN® RHS 12



### ■ Use of PET films in stand up pouches

- HOSTAPHAN® RHBY 12/metallising/OPA/PE
- HOSTAPHAN® RNK 12/metallising/PE



## HOSTAPHAN® - Types

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HOSTAPHAN® RNK - PET standard film for packaging applications

HOSTAPHAN® RNCB - PET film for cardboard lamination

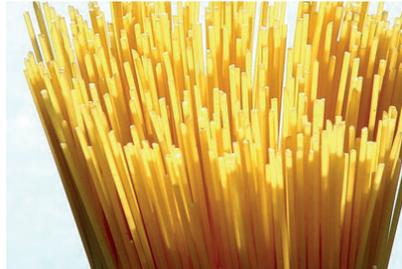
HOSTAPHAN® RHS - Heat sealable PET film

HOSTAPHAN® RHBV - PET film for highest barrier values after vacuum coating

## Advantages of HOSTAPHAN® Films

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- excellent barrier against mineral oils (MOSH, MOAH)
  - mineral oils are not soluble in PET
  - migration of substances through PET takes place very slowly
- extremely tensile and tear resistant
- impact and abrasion resistant
- dimensionally stable
- resistant to heat and cold
- printable, metallisable and suitable for lamination
- good barrier to aromas, gases and water vapor
- resistant to the usual organic solvents, oils, fats as well as against many inorganic substances
- resistant to fungi and bacteria
- free of plasticizers, odorless and tasteless





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