



# STRUKTOL<sup>®</sup> HT 207A

## PROCESSING ADDITIVE

### COMPOSITION

Mixture of soaps and fatty acid esters.

| <b>PROPERTIES</b>                      | <b>TYPICAL VALUES</b>                                      |
|--|--|
| Appearance                             | Off-white to tan pastille                                  |
| Melting Point (°C)                     | 66   |
| Density (@ 20 °C) (g/cm <sup>3</sup> ) | 0.984  |
| Physiological Behavior                 | Refer to safety data sheet                                 |
| Storage Stability                      | At least 2 years under normal storage conditions           |
| Packaging                              | 55 lb. bag / 2200 lb. skid<br>(25 kg. bag / 1000 kg. skid) |

### RECOMMENDATIONS FOR APPLICATION

STRUKTOL<sup>®</sup> HT 207A is a processing additive for applications in natural and synthetic rubber. As a blend of relatively polar fatty acid derivatives, STRUKTOL<sup>®</sup> HT 207A acts in non-polar elastomers predominantly as an external lubricant and release agent, since it has the tendency to accumulate at interfaces, this resulting in reduced friction and tackiness. In practice, this effect shows as improved extrusion rate and reduced mill roll sticking.

Due to its specific composition, the product softens readily and can easily be incorporated at temperatures above 65°C. In polar rubbers such as NBR the internal lubrication is to the fore resulting in a reduction of compound viscosity.

Due to its pronounced surfactant character STRUKTOL<sup>®</sup> HT 207A is strongly absorbed to fillers thus supporting filler dispersion and breaking up of filler agglomerates. This does not only lead to improved compound homogeneity but also to reduced compound viscosity. The effect is naturally strong with the polar mineral fillers.

Since STRUKTOL<sup>®</sup> HT 207A has a certain alkalinity, it has an activating effect upon the sulphur cure. When too fast scorch is observed in individual cases, addition of a suitable retarder (e.g., N-Cyclohexylthiophthalimide) should be taken into consideration.

STRUKTOL<sup>®</sup> HT 207A has particularly been developed from environmental aspects and contains no heavy metals. In many applications it can replace zinc soaps previously used as processing additives and thus it is an important contribution to the currently demanded reduction of the zinc content of rubber compounds.

### DOSAGE

2 – 5 phr