

# PT SIDDHARTA MANDIRI INDONESIA

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## HPP

## Processing Promoters

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|----------------------------|--|---|
| <b>Function</b>            | Peptizer and processing promoter for elastomer compounds, especially based on natural rubber   |   |
| <b>Product description</b> | Composition:   | zinc salts of higher molecular fatty acids                                    |
|                            | Appearance:  | light brown pastilles   |
|                            | Density, 20 °C:  | ~1,08 g/cm <sup>3</sup>   |
|                            | Ash content:   | 12 - 14 %   |
|                            | Melting point:   | 97 - 105°C  |
|                            | Solubility:  | insoluble in water<br>soluble in benzene and xylol                            |
|                            | Discolouration of vulcanizates:  | none  |
|                            | Physiological properties:  | see safety data sheet   |
| <b>Use</b>                 |  |   |
| <b>Mode of action:</b>     | HPP decreases the viscosity of compounds based on NR resulting in an easier processing. This leads to higher extrusion rates, better dimensional stability and a constant level of die swell. HPP provides a good dispersion of the fillers and rubber chemicals in the compound. Depending on the composition of the mixture, HPP improves scorch behaviour, promotes vulcanization and makes the process of demoulding much easier, leaving the mould clean. |   |
| <b>Processing:</b>         | HPP should be added together with the fillers at the beginning of the mixing cycle.  |   |
| <b>Dosage:</b>             | in NR: 2 - 3 phr<br>in HNBR: 2 - 3 phr<br>in BR: 2 - 3 phr<br>in IIR: 2 - 3 phr<br>in EPDM: 2- 3 phr   | in ACM: 2 - 3 phr in SBR: 2 - 3 phr<br><br>in IR: 2 - 3 phr in NBR: 2 - 3 phr |
| <b>Application:</b>        | Tires, molded and extruded articles of all types, hard rubber. Peptising effect in NR and IR upwards of 60°C. Retards scorch and accelerates vulcanisation.  |   |
| <b>Packing</b>             | Paper bag, 25 kg   |   |
| <b>Storage stability</b>   | In original closed containers under cool and dry conditions max. 1years.   |   |