

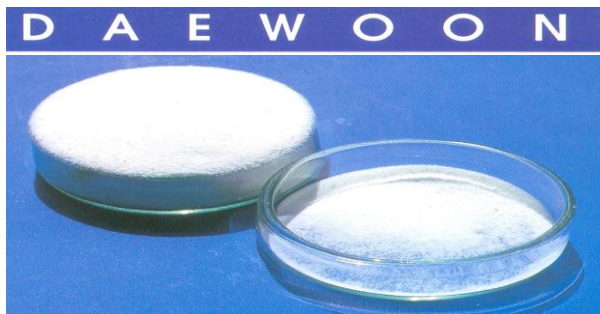
Technical Data Sheet (HIGH POLYMER STABILIZER SP-P)

□ INSTRUCTION

Although it is the presence of unsaturated groups in the rubber molecule which enables rubber to be vulcanized with sulfur, these groups also make rubber sensitive to

oxygen, ozone, and other reactive substances. The resulting reactions lead to partial destruction of the rubber. All of these destructive phenomena contribute towards the process known collectively as “ageing”. The aging mechanism is the action of oxygen plus heat(oxidation) and the influence of oxygen plus mechanical stress(Flex cracking).

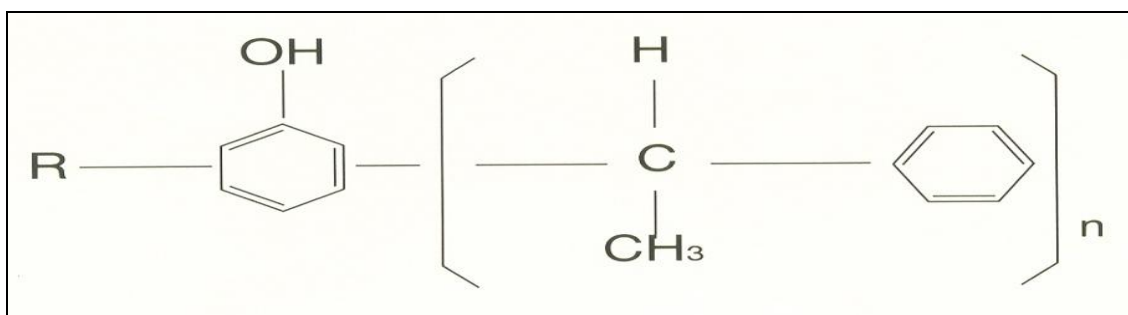
Chemically, SP is a derivative of phenol condensate. As a rule these chemicals provide very good protection against oxygen, heat and flex cracking. Also, SP is a non-staining anti-flex cracking agent.



□ PROPERTIES

Chemical Name : Styrenated phenol

Chemical Structure :



Appearance : White powder

Specific Gravity : 1.24 ~ 1.27

Stain : No stain

Water Soluble : Not soluble

Solubility : Ketone, benzene, glycol soluble

□ CHARACTERISTICS

1. If used in polymers such as NR, IR, BR, IIR, SBR, CR, NBR, and Latex it will

provide the effects of a non-staining anti-oxidant protecting against oxidation, heat and flex cracking.

2. SP has strong absorption action of oxygen due to a manufactured phenol condensation reaction. It is of low volatility, therefore retains very high efficiency when the goods are exposed to heat.
3. SP improves handling and processing because it is treated with silica powder coating.
4. SP does not change the color of vulcanizates that are exposed to light. Also, amine type anti-oxidants and SP will intensify when combined with each other.
5. It should be added that SP does not affect the intrinsic color of the vulcanizates. Also SP has practically no influence on the scorch or rate of cure as a whole.

□ APPLICATIONS

1. SP is used on goods which must not cause contact staining, e. g. carcasses for tires with white sidewalls.
2. The applications of SP include white colored and transparent rubber goods, e. g. white sidewalls, bicycle tires, floor coverings, mats, light-colored footwear, soles, dipped goods, toys, and light colored mechanical goods of every description, whether based on solid rubber or latex.

□ DOSAGE

2 ~ 5 PHR

□ PACKAGE

1. Net weight : 20Kg
2. 1-ply P.E. inner and 4-ply kraft paper package.

□ STORAGE

1. Avoid direct sunlight and moisture.
2. Keep in dry place or warehouse.

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