



上海威鹏化工有限公司

WPA Chemicals LIMITED

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## Petroleum Resins, C5 resins, C9 resins & C5/C9 Copolymerized Resins

### Product: Petroleum Resins

**Petroleum Resin** is a kind of thermoplastic resin produced by C<sub>5</sub>, C<sub>9</sub> fraction, by-products of petroleum cracking, through pretreatment, polymerization, and distillation, not a high polymer but a low polymer with the molecular weight between 300-3000, Featured with a low acid value, well miscible, resistant to water, ethanol and chemicals, it has the characteristics of chemical stabilizing property to acid and alkaline, viscosity adjusting and thermal stabilizing. Generally, it isn't be used alone, but together with other kinds of resins as accelerant, regulator and modifying agent.

### Main raw materials:

C9 petroleum resins: C9 fraction.

C5 petroleum resins: C5 fraction.

**Types:** C5 resin, C9 resin, C5/C9 copolymerized resins.

### Specification:

C5 petroleum resins (used for rubbers and adhesives) :

Color gardner: ≤5

Softening point: 100, 110 (90-100 & 100-110)

Acid value: ≤0.5

Ash content: ≤0.05

C9 petroleum resins:

Color gardner: ≥9

Softening point: 100, 110, 120 (90-100, 100-110 & 110-120)

Acid value: ≤0.5

Ash content: ≤0.05

C5/C9 petroleum resins:

Color gardner: ≥6

Softening point: 100 (90-100)

Acid value: ≤0.5

Ash content: ≤0.05

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**Application:** Aromatic Petroleum Resin is used for producing paints, rubbers, adhesives, printing inks and so on, for example:

**Paints:** Paints mainly use C<sub>9</sub> Petroleum Resins, DCPD resins and C<sub>5</sub>/C<sub>9</sub> copolymerized resins with high softening points, Petroleum Resins are added to paints can increase the final finishes of paints, the adhesiveness of paint films and the hardness. Resistance to acid and alkaline.

C5 Z100 petroleum resins are used for producing hot melt road painting, which can enhance the tenacity, hardness and adhesive force of paint material and form a smooth coating surface. The resin product can be always kept in a stable state in the four seasons by adding some special additives. And it also has a good compatibility with the rosin resin.

**Rubber:** Mainly use C<sub>5</sub> Petroleum Resins, C<sub>5</sub>/C<sub>9</sub> copolymerized resins and DCPD resins with low softening points, these kinds of resins have very good mutual solubilities with natural rubber particles, not affect to the sulphurization of rubber, rubbers added with Petroleum Resins will acts as increasing viscosity, strengthening and softening property. especially added the C<sub>5</sub>/C<sub>9</sub> copolymerized resin, not only increasing the adhesiveness among the colloidal particles, but also raise the adhesiveness between the colloidal particles and the fabric cord, it is adequate for the rubber of high requirement like as belt tyre.

**Adhesives:** C<sub>5</sub> Petroleum Resins have very good adhesiveness, they can increase the adhesiveness of adhesives, resistance to acid, alkaline and water when add them in the pressure-sensitive and the adhesives. Subsequently they will reduce the production cost.

**Printing inks:** usually, C<sub>9</sub> Petroleum resins and DCPD resins which have high softening point are used for printing inks, they have color spreading, fast drying, and brightening effects and will increase the printing property.

Others: Petroleum resins have certain unsaturation property and can be used as paper glutting agents, plastic modifiers etc.





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