

## SYLVAROS™ DR 731D Disproportionated Rosin

### PRODUCT DATA SHEET

SYLVAROS DR 731D Disproportionated Rosin is a pale, highly colour stable resin with a rosin acid content of about 90%. The proportions of the abietic and pimaric acid groups vary depending on the type of pine wood, as well as the sourcing location and the method of treating the rosin.

#### FEATURES:

- Light colour
- Very good colour stability
- SYLVAROS DR 731D disproportionated rosin contains 100% USDA certified biobased content

#### POTENTIAL APPLICATIONS:

- Emulsifiers for polymerization
- Pigment coating
- Solvent based adhesives and hotmelts
- Adhesives tapes
- Rubber products
- Laquers
- Sealants
- Paper sizing agents
- Marine coatings
- Esters and other rosin derivatives

### SALES SPECIFICATIONS

| Property                         | Test Method* | Specification | Typical Value |
|----------------------------------|--------------|---------------|---------------|
| Acid Number (mg KOH/g)           | AQCM 001     | 150 – 170     | 154           |
| Colour, US Rosin Standards       | AQCM 062     | WG or better  | X             |
| Unsaponifiables (%)              | AQCM 011     | Max 13        | 11            |
| Abietic Acid by UV (%)           | AQCM 212     | Max 0.5       | 0.2           |
| Dehydroabietic Acid by UV (%)    | AQCM 212     | Min 45        | 50            |
| Drop Point (°C)                  | AQCM 213     | Min 85        | 87            |
| Saponification Number (mg KOH/g) | AQCM 019     | 152 – 173     | 162           |
| Iodine Number (g/100 g)          | AQCM 233     | 85 – 115      | 105           |
| Iron (mg/kg)                     | AQCM 018     | Max 10        | 2             |

\*Kraton test methods are available upon request

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>SOLUBILITY</b></p>             | <p>SYLVAROS™ DR 731D Disproportionated Rosin is soluble in all common organic solvents and practically insoluble in water (less than 10 mg/l at 20 °C).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>PACKAGING</b></p>              | <p>SYLVAROS DR 731D Disproportionated Rosin is delivered in pastille form in 25 kg bags or as molten in heated tank trucks or ISO containers. Loading temperature for molten deliveries is at least 180 °C. Since the rosins tend to crystallize at temperatures between 110 °C and 140 °C, the discharge temperature should also be at least 160 °C.</p>                                                                                                                                                                                                                                                                             |
| <p><b>STORAGE RECOMMENDATION</b></p> | <p>SYLVAROS DR 731D Disproportionated Rosin pastilles should be stored below 30 °C. In temperatures above 20 °C, the pallets should be single stacked to avoid compression of the material. If re-massing still occurs, tapping the bags will normally restore the free flowing properties.</p> <p>Average oxygen absorption is less than 0.2 % (w/w) over a period of 4 weeks. The material may, however, deteriorate slightly in colour if stored for a prolonged period exposed to air. Molten rosin at higher temperatures should be blanketed with an inert gas to prevent a possibility of oxidation by atmospheric oxygen.</p> |



The USDA Certified Biobased Product label is a certification mark of the U.S. Department of Agriculture.

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