

TECHNICAL DATA SHEET

Material:Polyvinyl Alcohol (PVA)
CAS Number: 9002-89-5/25213-24-5

DESCRIPTION OF THE PRODUCT

Polyvinyl alcohol (PVOH, PVA) is a water-soluble synthetic polymer. It has the idealized formula $[CH_2CH(OH)]_n$. It is used in papermaking, textiles, and a variety of coatings. It is white and odorless. It is sometimes supplied as beads or as solutions in water.

SALES SPECIFICATION

| PARTICALLY HYDROLYZED (CAS No. 25213-24-5) | | | | | |
|--|----------------------|--------------------------------------|-----------------------|-------------------------|----------|
| GRADE | Hydrolysis (mol%) | Viscosity(cps 4% solution @ 30°C) | Volatiles (% Max.) | ASH Content (% Max.) | PH Value |
| 05-88 | 86.0-89.0 | 4.5-6.5 | 5.0 | 0.5 | 5-7 |
| 17-88 | 86.0-89.0 | 20.0-26.0 | 5.0 | 0.5 | 5-7 |
| 20-88 | 86.0-89.0 | 28.0-35.0 | 5.0 | 0.5 | 5-7 |
| 24-88 | 86.0-89.0 | 44.0-54.0 | 5.0 | 0.5 | 5-7 |
| 26-88 | 86.0-89.0 | 54.0-68.0 | 5.0 | 0.5 | 5-7 |

| FULLY HYDROLYZED (CAS No. 9002-89-5) | | | | | |
|--------------------------------------|------------|-----------|-----|-----|-----|
| 05-99 | 98.0-100.0 | 4.5-7.0 | 5.0 | 0.7 | 5-7 |
| 12-99 | 98.0-100.0 | 12.0-15.0 | 5.0 | 0.7 | 5-7 |
| 15-99 | 98.0-100.0 | 15.0-24.0 | 5.0 | 0.7 | 5-7 |
| 17-99 | 98.0-100.0 | 26.0-35.0 | 5.0 | 0.7 | 5-7 |
| 24-99 | 98.0-100.0 | 48.0-68.0 | 5.0 | 0.7 | 5-7 |
| 26-99 | 98.0-100.0 | 68.0-80.0 | 5.0 | 0.7 | 5-7 |

SPECIAL GRADE POLYVINYL ALCOHOL (CAS No. 25213-24-5)

| GRADE | Hydrolysis (mol%) | Viscosity(cps 4% solution @ 30°C) | Volatiles (% Max.) | ASH Content (% Max.) | PH Value |
|-------|----------------------|--------------------------------------|-----------------------|-------------------------|----------|
| 04-98 | 98.0-98.8 | 4.0-8.0 | 5.0 | 0.5 | 5-7 |
| 17-95 | 94.0-96.0 | 22.0-28.0 | 5.0 | 0.5 | 5-7 |
| 17-92 | 90.0-94.0 | 20.0-30.0 | 5.0 | 0.5 | 5-7 |
| 20-92 | 90.0-95.0 | 30.0-40.0 | 5.0 | 0.5 | 5-7 |