



EURO  YSER
a drop of opportunities



ADHESIVES

Non Crystallizing
Gum Rosin
Glycerol Esters
Penta Esters



FOOD AND BEVERAGE

Glycerol and
Penta
Esters



COSMETIC

Gum Rosin
Glycerol Esters
Triethylene Glycol
Esters



ROAD MARKING

Modified Penta
Esters
Modified Glycerol
Esters
Penta Esters



FLOORING

Non Crystallizing
Gum Rosin
Triethylene Glycol
Esters



PSA (TAPES AND LABELS)

Water Based
Dispersions



RUBBER

Rosin Blends
Rosin Soaps



PRINTING INKS AND VARNISHES

Rosin Adducts
and their Esters
Phenol Modified
Rosin Esters
Phenol Free
Resins

Tackifiers

| | Product Line | Product | AV (mg KOH/g) | Color (Gardner) | Softening Point (°C) | % Abietic Acid | Viscosity (mPa.s) | Observations | Applications | | | | | |
|-------------------------------------|-----------------------------|-----------------|---------------|-----------------|----------------------|----------------|-------------------|---|------------------|-----------|----------|--------------|----------------------|---|
| | | | | | | | | | Depilatory Waxes | Adhesives | Flooring | Road Marking | Special Applications | |
| ROSIN | Gum Rosin | YT 101 E | 140-170 | 7 max | 72-82 | | | | • | • | | • | • | |
| | Non Crystallizing Gum Rosin | YT 102 | 170 max | 8 max | 79-83 | | | | | | • | • | | |
| | | YT 103 | 150 max | 9 max | 94-99 | | | | | | • | • | | |
| | | YT 104 | 150 max | 6 max | 71-76 | 8 max | | | | | • | • | | |
| | | YT 105 | 130 max | 7 max | 68-72 | | | | | | • | • | | |
| | | YT 106 | 170 max | 8 max | 85-90 | | | | | | • | • | | |
| | | YT 107 | 160 max | 8 max | 78-82 | | | | | | • | • | | |
| | Disproportionated Rosin | YT 301 | 160 max | 12 max | 65-70 | 5 max | | | | | | | | • |
| | | YT 302 | 160 max | 8 max | 72-78 | 1 max | | | | | | | | • |
| | | YT 303 | 160 max | 11 max | 65-73 | 0,5 max | | | | | | | | • |
| | | YT 304 | 130-150 | 8 max | 65-75 | 5 max | | | | | | | | • |
| | Polymerized Rosin | YT 201 | 160 max | 10 max | 100-105 | | | | | • | • | | | • |
| | | YT 401 | 140 max | 6 max | 84-88 | 10 max | | | | | • | | | • |
| | ROSIN ESTERS | Glycerol Esters | YT 311 | 15 max | 4 max | 86-90 | | 130-190 | | • | • | | • | |
| YT 312 | | | 15 max | 4 max | 82-86 | | 100-170 | Thermosel, 170°C | • | • | | • | | |
| YT 331 | | | 60 - 70 | 4 max | 65-75 | | 100-150 | Thermosel, 150°C | • | • | | | | |
| Modified Glycerol Esters | | YT 315 | 15 max | 4 max | 98-102 | | | | | | | | • | |
| | | YT 318 | 10 - 20 | 5 max | 100-110 | | | | | | | | • | |
| | | YT 319 | 35 - 45 | 5 max | 115-125 | | | | | | | | • | |
| Penta Esters | | YT 321 | 20 max | 3+ max | 95-100 | | 300 (a);1200 (b) | (a) Thermosel, 170°C (b) Thermosel, 150°C | | • | | • | | |
| | | YT 322 | 20 max | 4 max | 105-110 | | 630 (a); 2500 (b) | | | • | | • | | |
| | | YT 327 | 80-90 | 4 max | 90-95 | | | | | • | | | | |
| Modified Penta Esters | | YT 323 | 20 max | 4 max | 110-115 | | | | | | • | | • | • |
| | | YT 422 | 20 max | 9 max | 123-129 | | | | | | • | | | • |
| Glycerol/ Triethylene Glycol Esters | | YT 313 | 15 max | 4 max | 74-78 | | | | | | | | | • |
| | | YT 316 | 15 max | 4 max | 55-60 | | | | | | | | | • |
| Triethylene Glycol Esters | | YT 341 | 20 max | 4 max | | | 400-500 | Thermosel, 80°C | • | | • | | | |
| | | YT 342 | 20 max | 4 max | | | 80000-120000 | | • | • | • | | | |
| | | YT 343 | 20 max | 4 max | | | 25000-55000 | Rheometer, 20°C | • | | • | | | |
| | | YT 344 | 12 max | 4 max | | | 7000-13000 | | • | | • | • | | |
| | | Polaris II | 20 - 30 | 4 max | | | 15000-25000 | | | | • | | | |
| | | Polaris III | 45 - 60 | 4 max | | | 30000-50000 | Rheometer, 35°C | | | • | | | |
| | | Polaris IV | 30 - 50 | 6 max | | | 400000-500000 | | | | • | | | |
| Polymerized Rosin Esters | YT 411 | 15 max | 7 max | 98-102 | 10 max | | | | | | | | • | |
| | YT 421 | 20 max | 9 max | 112-118 | | | | | | | | | • | |
| Specially Modified Esters | YT 317 | 20 max | 8 max | 130-140 | | | | | | | | | • | |
| | YT 324 | 20 max | 8 max | 115-120 | | | | | | | | | • | |
| | YT 325 | 20 max | 8 max | 120-125 | | | | | | | | | • | |

Food and Beverage

| ROSIN ESTERS | Product Line | Product | AV (mg KOH/g) | Color (Gardner) | Softening Point (°C)(Mettler) | Taste & Odor |
|--|---------------------------------|---------------|-----------------|---------------------------|-------------------------------|--------------|
| | Glycerol Esters for Chewing Gum | | YG 111/111K | 8 max | 8 max | 84-88 |
| | | YG 112/112K | 8 max | 8 max | 80-84 | Neg |
| | | YG 113/113K | 8 max | 8 max | 87-91 | Neg |
| | | YG 114/114K | 8 max | 8 max | 76-80 | Neg |
| | | YG 115/115K | 8 max | 8 max | 97-103 | Neg |
| Product Line | Product | AV (mg KOH/g) | Color (Gardner) | Softening Point (°C)(R&B) | Taste & Odor | |
| Polymerized Glycerol Ester for Chewing Gum | | YG 212 | 9 max | 10 max | 108-114 | Neg |
| | Penta Ester for Chewing Gum | YG 121 | 8 max | 6 max | 88-92 | Neg |
| YG 122 | | 6 max | 8 max | 108-114 | Neg | |
| Glycerol Esters for Beverage | YG 113 BG | 4-8 | 8 max | 88-92 | Neg | |

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Dispersions

| | Product Line | Dispersion Properties | | | | | Dry Properties | | Applications |
|------------------------|--------------|-----------------------|--------------------|----------------------------|---------|--------------------------------|----------------|----------------------|---|
| | | Product | Solids Content (%) | Viscosity (@ 25°C) (mPa.s) | pH | Particle Size (d50 - nm) (max) | AV (mg KOH/g) | Softening Point (°C) | |
| Water Borne Tackifiers | Rosin Ester | AQUADHES E 7053 | 52-54 | 50-300 | 6,0-8,0 | 350 | < 15 | 65-75 | Tapes and Labels (Pressure Sensitive Adhesives) |
| | | AQUADHES E 7553 | 52-54 | 50-300 | 6,0-8,0 | 350 | < 50 | 74-84 | |
| | | AQUADHES P 750 | 53-55 | 100-800 | 6,5-7,5 | 600 | < 20 | 72-82 | |
| | Rosin Acid | AQUADHES A 7552 | 51-53 | 70-700 | 6,5-8,5 | 400 | > 100 | 58-68 | |
| | | AQUADHES AQUARIUS II | 51-53 | 50-500 | 6,5-8,5 | 350 | < 170 | --- | |
| | | AQUADHES AQUARIUS III | 51-53 | 100-800 | 7,0-9,0 | 350 | > 110 | 54-64 | |
| | Hybrid Resin | AQUADHES H 7953 | 52-54 | 50-300 | 5,5-7,5 | 350 | < 20 | 72-82 | |
| | | AQUADHES H 7959 | 58-60 | 300-1000 | 5,5-7,5 | 350 | < 20 | 72-82 | |
| | | AQUADHES H 8556 | 55-57 | 100-700 | 5,5-7,5 | 350 | < 50 | 88-98 | |

Other Products

| Product Line | Product | AV (mg KOH/g) | Color (Gardner) | Relative Density | Solids Content (%) | Softening Point (°C) | VOC (PPM) | Viscosity (mPa.s) (Rheometer, 65°C) | Refractive Index (20°C) |
|----------------|------------------|---------------|-----------------|------------------|--------------------|----------------------|-----------|-------------------------------------|-------------------------|
| Gum Turpentine | Turpentine | 2 max | incolor | 0,860-0,870 | | | | | 1,4660-1,4750 |
| Rosin Soaps | YS 104 Sodium | 8-16 | | | 69-71 | | | | |
| | YS 301 Sodium | 8-12 | | | 69-71 | | | | |
| | YS 301 Potassium | 8-12 | | | 83-86 | | | | |
| Rosin Salts | Capela I | | 11 max | | | 145-155 | | | |
| Rosin Blends | YC 821 | 145-175 | 10 max | | | 74-90 | | | |
| | YC 871 | 70-90 | 8 max | | | | 30 max | | |
| | YB 603 | 10 max | 4 max | | | | | | |
| | YB 607 | 10-20 | 5 max | | | | | 5000 - 7000 | |



Since 1994 EURO-YSER is dedicated to production of Gum Rosin derivatives for a wide range of applications such as Chewing Gum Base, Adhesives, Paints and Varnishes, Rubber, Printing Inks and others.

Today EURO-YSER is present in more than 30 countries directly or through our local Partners.

Our industrial facilities located in Aveiro - Portugal have an area of 15,000 m² and a total manufacturing capacity of 2,500 tons/month of Gum Rosin Derivatives.

Since the beginning of our activity we have been strongly focused on innovation through **Research and Development**, providing products designed to enable flexible formulation options.

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