

**OPC POLYMERS**

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# OPC POLYMERS CATALOG

| LONG OIL ALKYD | MEDIUM OIL ALKYD | SHORT OIL ALKYD |
|----------------|------------------|-----------------|
| 2390-M-80      | 7517-M-75        | 7482-PMA-90     |
| 7484-100       | 7531-V-55        | 7605-K-80       |
| 7778-M-70      | 7667-OX-50       | 7686-BA-65      |
| G2505-MS16-70  |                  |                 |
| G2507-OMS-70   |                  |                 |
| G7758-MS16-60  |                  |                 |

| COPOLYMER  | COCONUT ALKYD | WATER REDUCIBLE |
|------------|---------------|-----------------|
| 7060-V-60  | 7137-X-60     | 7774-EB-85      |
| 7563-V-60  | 7610-OX-50    | 7775-EB-70      |
| 7577-KD-65 | 7772-BA-70    | 7776-PP-75      |
| 7655-KD-75 | G801-238-X-66 |                 |
| 7689-V-60  |               |                 |
| OP-94      |               |                 |
| OP-98      |               |                 |

| URETHANE ALKYD |
|----------------|
| 7779-MS16-60   |
|                |

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## PRODUCTS & SPECIFICATIONS

| RESIN                   | NVM | VISCOSITY | ACID VALUE | COLOR | REDUCED VIS/NVM | WT. /G. | SOLVENT | APPLICATION   |
|-------------------------|-----|-----------|------------|-------|-----------------|---------|---------|---|
| <b>LONG OIL ALKYD</b>   |     |           |            |       |                 |         |         |   |
| 2390-M-80               | 80  | Z – Z2    | 10         | 7     | U – W/70        | 8.30    | MS      | Grinding Vehicle, VOC Modifier.                                   |
| 7484-100                | 100 | P – Q     | 10         | 7     | -               | 8.00    | -       | Latex Modifier, VOC Free.   |
| 7778-M-70               | 70  | Z – Z2    | 10         | 7     | C – F/50        | 8.00    | MS      | Conventional LOA. TT-R-266, Type 1, Class A Alkyd.                |
| G2505-MS16-70           | 70  | Y – Z1    | 10         | 6     | Q – U/60        | 7.80    | MS16    | High Quality Architectural Vehicle.                               |
| G2507-OMS-70            | 70  | Z3 – Z5   | 14         | 8     | G – K/50        | 8.00    | OMS     | Low HAPs, Arch. Coatings.   |
| G7758-MS16-70           | 60  | Z1 – Z3   | 10         | 5     | N – R/50        | 7.75    | MS-16   | High quality architectural gloss and trim enamels.                |
| <b>MEDIUM OIL ALKYD</b> |     |           |            |       |                 |         |         |   |
| 7517-M-75               | 75  | Z2 – Z4   | 4 – 10     | 7     | D – G/50        | 8.10    | MS      | High solids medium oil alkyd - air dry or force dry applications. |
| 7531-V-55               | 55  | X – Z     | 10         | 10    | T – V/50        | 7.50    | VMP     | Recommended for gloss, semi-gloss & floor enamels.                |
| 7667-OX-50              | 50  | U – X     | 10         | 7     | F – I/40        | 9.75    | OX      | VOC compliant enamels.  |
| <b>SHORT OIL ALKYD</b>  |     |           |            |       |                 |         |         |   |
| 7482-PMA-90             | 90  | Z3 – Z5   | 12 – 19    | 10    | V – X/80        | 9.20    | PMA     | Low HAPs, high solids alkyd for bake applications. Hydroxyl #81.  |
| 7605-K-80               | 80  | Z – Z3    | 12         | 6     | C – F/60        | 9.00    | MPK/100 | Provides excellent dry, gloss retention and low VOC content.      |
| 7686-BA-65              | 65  | Y – Z2    | 14         | 7     | D – G/50        | 8.70    | n-BA    | High solid chain stopped alkyd with excellent balance properties. |

| RESIN                         | NVM | VISCOSITY | ACID VALUE | COLOR | REDUCED VIS/NVM | WT. /G. | SOLVENT | APPLICATION  |
|-------------------------------|-----|-----------|------------|-------|-----------------|---------|---------|--|
| <b>MONOMER MODIFIED ALKYD</b> |     |           |            |       |                 |         |         |  |
| 7060-V-60                     | 60  | Z - Z2    | 10         | 6     | D- G/40         | 7.70    | VMP     | Excellent Durability, Fast Dry.  |
| 7563-V-60                     | 60  | Y - Z1    | 4          | 4     | C – F/40        | 7.40    | VMP     | Sanding sealers, aerosol, primer, & enamels - lacquer type dry.                                  |
| 7577-KD-65                    | 65  | Z - Z2    | 13         | 7     | D – G/40        | 7.60    | KD      | Aerosols & Stain Stopping Primers.   |
| 7655-KD-75                    | 75  | Z - Z3    | 10         | 6     | J – M/60        | 7.80    | KD      | High solids VT oil for lower VOC fast dry coatings.  |
| 7689-V-60                     | 60  | Z - Z2    | 12         | 6     | E -G/40         | 7.70    | VMP     | Fast dry high gloss enamels & top coats; aerosol paints.   |
| OP-94                         | 60  | Z – Z3    | 10         | 6     | D -F/40         | 7.65    | VMP     | Economical-superior stain resistance, fast dry.  |
| OP-98                         | 60  | Z – Z3    | 10         | 4     | D -F/40         | 7.70    | VMP     | Fast dry high gloss enamels & top coats; aerosol paints.   |
| <b>COCONUT ALKYDS</b>         |     |           |            |       |                 |         |         |  |
| 7137-X-60                     | 60  | Z1 - Z3   | 12         | 2     | A – D/40        | 8.60    | X       | Coconut alkyd for use as a plasticizer and melamine bake systems. OH# - 157.                     |
| 7610-OX-50                    | 50  | Z - Z2    | 12         | 2     | P – T/40        | 10.20   | OX      | Short oil coconut alkyd cut in OXSOL 100. OH# - 160.   |
| 7772-BA-70                    | 70  | Z1 - Z4   | 12         | 3     | P – T/60        | 9.00    | n-BA    | Light color furniture varnishes and high bake enamels. Plasticizer for NC lacquers. OH# - 175.   |
| G801-238-X-66                 | 66  | Z3 – Z4   | 4.5 – 9    | 3     | -               | 8.65    | X       | Excellent Color Retention along with good hardness. OH# - 142.                                   |
| <b>WATER REDUCIBLE ALKYD</b>  |     |           |            |       |                 |         |         |  |
| 7774-EB-85                    | 85  | Z5 – Z7   | 48 – 56    | 9     | -               | 9.20    | EB      | High Solid Low VOC Baking Enamel.  |
| 7775-EB-70                    | 70  | Z4 – Z6   | 33 – 40    | 7     | -               | 8.95    | EB      | Fast Dry High Gloss durable resin for Industrial finishes. HAPs free. Excellent Gloss Retention. |
| 7776-PP-75                    | 75  | Z6 – Z8   | 37 – 43    | 8     | -               | 9.00    | PP      | High Solid Fast Drying, Low VOC Resin for Industrial Applications, HAPs Free.                    |

| RESIN  | NVM | VISCOSITY | ACID VALUE | COLOR | REDUCED VIS/NVM | WT. /G. | SOLVENT | APPLICATION   |
|--|-----|-----------|------------|-------|-----------------|---------|---------|---|
| <b>URETHANE ALKYD</b>                        |     |           |            |       |                 |         |         |   |
| 7779-MS16-60                                 | 60  | Z1 – Z3   | 2          | 6     | S – V/40        | 7.65    | MS-16   | Clear and pigmented floor finishes, General purpose varnishes and enamels.    |
| <b>HIGH SOLID &amp; COMPLIANT RESIN LIST</b> |     |           |            |       |                 |         |         |   |
| 2390-M-80                                    | 80  | Z – Z2    | 10         | 7     | U – W/70        | 8.30    | MS      | Grinding Vehicle, VOC Modifier.   |
| 7517-M-75                                    | 75  | Z2 – Z4   | 4 – 10     | 7     | D – G/50        | 8.10    | MS      | High solids medium oil alkyd - air dry or force dry applications.             |
| 7667-OX-50                                   | 50  | U – X     | 10         | 7     | F – I/40        | 9.75    | OX      | VOC Compliant Enamel, MOA.  |
| 7482-PMA-90                                  | 90  | Z3 – Z5   | 12 – 19    | 10    | V – X/80        | 9.20    | PMA     | HAP free high solids alkyd for bake applications. Hydroxyl #81.               |
| 7605-K-80                                    | 80  | Z – Z3    | 12         | 6     | C – F/60        | 9.00    | MPK/100 | Finishes with excellent dry, gloss retention and low VOC content.             |
| 7655-KD-75                                   | 75  | Z - Z3    | 10         | 6     | J – M/60        | 7.80    | KD      | High solids VT oil for lower VOC fast dry coatings.                           |
| 7610-OX-50                                   | 50  | Z - Z2    | 12         | 2     | P – T/40        | 10.20   | OX      | Short oil coconut alkyd cut in OXSOL 100. OH# - 160.                          |
| 7774-EB-85                                   | 85  | Z5 – Z7   | 48 – 56    | 9     | -               | 9.20    | EB      | High Solid Low VOC Baking Enamel.   |
| 7776-PP-75                                   | 75  | Z6 – Z8   | 37 – 43    | 8     | -               | 9.00    | PP      | High Solid Fast Drying, Low VOC Resin for Industrial Applications, HAPs Free. |

## SOLVENT KEY













|     |                               |     |                 |       |                                   |
|-----|-------------------------------|-----|-----------------|-------|-----------------------------------|
| MS  | Mineral Spirits, Low Aromatic | X   | Xylene          | MS-16 | Mineral Spirits, 16% Aromatic     |
| KD  | Quick Drying Mineral Spirits  | nBA | n Butyl Acetate | PP    | Propylene Glycol Mono-Propylether |
| OMS | Odorless Mineral Spirits      | 100 | Aromatic 100    | PMA   | PM Acetate                        |
| MPK | Methyl Propyl Ketone          | OX  | Oxsol 100       | EB    | Ethylene Glycol Monobutylether    |

## VISCOSITY CONVERSION CHART

| CEN TIPOISE | Ford Cup 3 | Ford Cup 4 | Gardner Viscosity | Krebs Units KU | Zahn 1 | Zahn 2 | Zahn 3 | Zahn 4 | Zahn 5 | Saybolt Uni- versal SSU |
|-------------|------------|------------|-------------------|----------------|--------|--------|--------|--------|--------|-------------------------|
| 10          |            | 5          |                   |                | 30     | 16     |        |        |        | 60                      |
| 15          |            | 8          | A-4               |                | 34     | 17     |        |        |        | 80                      |
| 20          | 12         | 10         | A-3               |                | 37     | 18     |        |        |        | 100                     |
| 25          | 15         | 12         | A2                |                | 41     | 19     |        |        |        | 130                     |
| 30          | 19         | 14         | A1                |                | 44     | 20     |        |        |        | 160                     |
| 40          | 25         | 18         | A                 |                | 52     | 22     |        |        |        | 210                     |
| 50          | 29         | 22         |                   | 30             | 60     | 24     |        |        |        | 260                     |
| 60          | 33         | 25         |                   | 33             | 68     | 27     |        |        |        | 320                     |
| 70          | 37         | 28         | B                 | 35             |        | 30     |        |        |        | 370                     |
| 80          | 41         | 31         | C                 | 37             |        | 34     |        |        |        | 430                     |
| 90          | 45         | 33         |                   | 38             |        | 37     | 10     |        |        | 480                     |
| 100         | 50         | 35         | D                 | 40             |        | 41     | 12     |        |        | 530                     |
|             |            |            |                   |                |        |        |        | 10     |        |                         |
| 120         | 58         | 41         | E                 | 43             |        | 49     | 14     | 11     |        | 580                     |
| 140         | 66         | 45         | F                 | 46             |        | 58     | 16     | 13     |        | 690                     |
| 160         |            | 50         | G                 | 48             |        | 66     | 18     | 14     |        | 790                     |
| 180         |            | 54         |                   | 50             |        | 74     | 20     | 16     |        | 900                     |
| 200         |            | 58         | H                 | 52             |        | 82     | 23     | 17     | 10     | 1000                    |
| 220         |            | 62         | I                 | 54             |        |        | 25     | 18     | 11     | 1100                    |
| 240         |            | 65         | J                 | 56             |        |        | 28     | 20     | 12     | 1200                    |
| 260         |            | 68         |                   | 58             |        |        | 30     | 21     | 13     | 1280                    |
| 280         |            | 71         | K                 | 59             |        |        | 32     | 22     | 14     | 1380                    |
| 300         |            |            | L                 |                |        |        | 34     | 24     | 15     | 1470                    |
| 320         |            | 74         | M                 | 60             |        |        | 36     | 25     | 16     | 1550                    |
| 340         |            |            | N                 |                |        |        | 39     | 26     | 17     | 1630                    |
| 360         |            |            | O                 | 62             |        |        | 41     | 28     | 18     | 1730                    |
| 380         |            |            |                   |                |        |        | 43     | 29     | 19     | 1850                    |
| 400         |            |            | P                 | 64             |        |        | 46     | 30     | 20     | 1950                    |
| 420         |            |            |                   |                |        |        | 48     | 32     | 21     | 2050                    |
| 440         |            |            | Q                 |                |        |        | 50     | 33     | 22     | 2160                    |
| 460         |            |            | R                 | 66             |        |        | 52     | 34     | 23     | 2270                    |
| 480         |            |            |                   | 67             |        |        | 54     | 36     | 24     | 2380                    |
| 500         |            |            | S                 | 68             |        |        | 57     | 37     | 25     | 2480                    |
| 550         |            |            | T                 | 69             |        |        | 63     | 40     | 27     | 2660                    |
| 600         |            |            |                   | 71             |        |        |        | 44     | 30     | 2900                    |
| 700         |            |            | U                 | 74             |        |        | 68     | 51     | 35     | 3375                    |
| 800         |            |            |                   | 77             |        |        |        | 58     | 40     | 3880                    |
| 900         |            |            | V                 | 81             |        |        |        | 44     | 30     | 2900                    |
| 1000        |            |            | W                 | 85             |        |        | 68     | 51     | 35     | 3375                    |
| 1100        |            |            |                   | 88             |        |        |        | 58     | 40     | 3880                    |
| 1200        |            |            |                   | 92             |        |        |        |        | 59     | 5650                    |
| 1300        |            |            | X                 | 95             |        |        |        |        | 64     | 6100                    |
| 1500        |            |            |                   | 98             |        |        |        |        |        |                         |
| 1800        |            |            | Y                 | 102            |        |        |        |        |        |                         |
| 2300        |            |            | Z                 | 105            |        |        |        |        |        | 8500                    |
| 2500        |            |            | Z1                | 114            |        |        |        |        |        |                         |
| 3500        |            |            | Z2                |                |        |        |        |        |        |                         |
| 4500        |            |            | Z3                | 129            |        |        |        |        |        | 10750                   |
| 6000        |            |            | Z4                | 136            |        |        |        |        |        |                         |
| 10000       |            |            | Z5                |                |        |        |        |        |        |                         |
| 15000       |            |            | Z6                |                |        |        |        |        |        |                         |

NOTE: All conversions should be used as approximations only.

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Revision 03/16/23