# KANACHLOR CHLORINATED PARAFFIN

| SPECIFICATION / GRADE | UNIT | TEST METHOD | 40 D/AD/ AI/AD1 | 40 C | 42 WH | 42 WAX | 45 D/AD/ AI/AD1 | 45 C | 45 KD-5 | 45 F | ✦ 45 KL-10 | ✦ 50 WH | 52 D/AD/ AI/AD1 | 52 C | 52 KD-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Colour (Max.) | Hazen | ASTM D-1045-86 | 60 | 60 | 300 | 60 | 60 | 60 | 150 | 60 | 60 | 300 | 60 | 60 | 150 |
| Specific Gravity at 27°C | N/A | ASTM D-1045 | 1.11 ± 0.02 | 1.10 ± 0.02 | 1.18 ± 0.02 | 1.20 ± 0.02 | 1.11 ± 0.02 | 1.20 ± 0.02 | 1.20 ± 0.02 | 1.20 ± 0.02 | 1.21 ± 0.02 | 1.28 ± 0.02 | 1.28 ± 0.02 | 1.30 ± 0.02 | 1.28 ± 0.02 |
| Refractive Index at 27°C | N/A | ASTM D-1807 | 1.483 ± 0.002 | 1.483 ± 0.002 | 1.503 ± 0.002 | 1.506 ± 0.002 | 1.498 ± 0.002 | 1.496 ± 0.002 | 1.498 ± 0.002 | 1.491 ± 0.002 | 1.505 ± 0.002 | 1.520 ± 0.002 | 1.509 ± 0.002 | 1.510 ± 0.002 | 1.510 ± 0.002 |
| Volatile Loss at 180°C for 4 Hours (Max.) | % By Weight | KLJ/QCD/ WIN/26 | 3.50 | 9.00 | 2.50 | 0.80 | 3.00 | 7.00 | 6.50 | 9.00 | 1.50 | 0.80 | 1.50 | 3.50 | 4.00 |
| Chlorine Content | % By Weight | ISI-1448-77 | 40 ± 2 | 40 ± 2 | 42 ± 2 | 42 ± 2 | 45 ± 2 | 45 ± 2 | 45 ± 2 | 45 ± 2 | 45 ± 2 | 50 ± 2 | 52 ± 2 | 52 ± 2 | 52 ± 2 |
| Free Mineral Acidity (Max.) | % By Weight | KLJ/QCD/ WIN/24 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Free Chlorine (Max.) | % By Weight | KLJ/QCD/ WIN/25 | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| Viscosity at 27°C | Poise | Brookfield ASTM D-445 | 0.5 - 1.0 | 0.3 - 1.0 | 15 - 50 | 50 - 100 | 2 - 5 | 0.5 - 1.5 | 2 - 5 | 0.3 - 0.8 | 15 - 30 | 500 - 1200 | 12 - 35 | 5 - 12 | 10 - 25 |
| Heat Stability at 180°C for 20 Minutes (Max.) | Colour | KLJ/QCD/ WIN/28 | Yellow | Yellow | Brown | Yellow | Yellow | Yellow | Brown | Dark Yellow | Yellow | Brown | Yellow | Yellow | Brown |
| Thermal Stability at 175°C for 4 Hours (Max.) | % By Weight | KLJ/QCD/ WIN/27 | 0.10 | 0.10 | 0.40 | 0.10 | 0.10 | 0.10 | 0.20 | 0.20 | 0.10 | 0.40 | 0.10 | 0.10 | 0.20 |
| pH Value (Min.) | – | KLJ/QCD/ WIN/29 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |

# KANACHLOR CHLORINATED PARAFFIN

| SPECIFICATION / GRADE | UNIT | TEST METHOD | 52 F | 58 D/AD AI/AD1 | 58 C | 58 KD-5 | 58 F | 62 D/AD AI/AD1 | 62 C | 62 KD-5 | 62 F | 68 F | 68 D/AD AI/AD1 | 68 C | ✦ 72 F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Colour (Max.) | Hazen | ASTM D-1045-86 | 60 | 60 | 60 | 150 | 60 | 60 | 60 | 150 | 60 | 60 | 150 | 100 | 150 |
| Specific Gravity at 27°C | N/A | ASTM D-1045 | 1.30 ± 0.02 | 1.36 ± 0.02 | 1.35 ± 0.02 | 1.35 ± 0.02 | 1.35 ± 0.03 | 1.40 ± 0.03 | 1.40 ± 0.03 | 1.40 ± 0.03 | 1.40 ± 0.02 | 1.51 ± 0.04 | 1.50 ± 0.04 (at 50°C) | 1.54 ± 0.04 (at 50°C) | 1.59 ± 0.04 (at 50°C) |
| Refractive Index at 27°C | N/A | ASTM D-1807 | 1.506 ± 0.002 | 1.518 ± 0.002 | 1.515 ± 0.002 | 1.516 ± 0.002 | 1.513 ± 0.003 | 1.526 ± 0.003 | 1.524 ± 0.003 | 1.525 ± 0.003 | 1.520 ± 0.003 | 1.531 ± 0.004 | – | – | – |
| Volatile Loss at 180°C for 4 Hours (Max.) | % By Weight | KLJ/QCD/ WIN/26 | 6.00 | 1.20 | 2.00 | 3.50 | 5.00 | 0.90 | 1.50 | 3.00 | 3.50 | 2.00 | 0.50 | 1.00 | 1.30 |
| Chlorine Content | % By Weight | ISI-1448-77 | 52 ± 2 | 58 ± 2 | 58 ± 2 | 58 ± 2 | 58 ± 2 | 62 ± 2 | 62 ± 2 | 62 ± 2 | 62 ± 2 | 68 ± 2 | 68 ± 3 | 68 ± 2 | 72 ± 2 |
| Free Mineral Acidity (Max.) | % By Weight | KLJ/QCD/ WIN/24 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Free Chlorine (Max.) | % By Weight | KLJ/QCD/ WIN/25 | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| Viscosity at 27°C | Poise | Brookfield ASTM D-445 | 1 - 3 | 125-400 | 20 - 35 | 125-250 | 4 - 7 | 400 - 1200 | 125-250 | 300-700 | 15 - 30 | 180-700 | 500-2000 (at 50°C) | 80 - 300 (at 50°C) | 100-500 (at 50°C) |
| Heat Stability at 180°C for 20 Minutes (Max.) | Colour | KLJ/QCD/ WIN/28 | DarkYellow | Yellow | Yellow | Brown | DarkYellow | Yellow | Yellow | Brown | DarkYellow | DarkYellow | Light Brown | DarkYellow | Brown |
| Thermal Stability at 175°C for 4 Hours (Max.) | % By Weight | KLJ/QCD/ WIN/27 | 0.20 | 0.10 | 0.10 | 0.20 | 0.20 | 0.10 | 0.10 | 0.20 | 0.20 | 0.20 | 0.10 | 0.10 | 0.20 |
| pH Value (Min.) | – | KLJ/QCD/ WIN/29 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |