

## ArChine Base Polymers

### Product Description

**ArChine base stocks** are polyalkylene glycols (PAGs), which are polymers of ethylene oxide and propylene oxide described with the generalized formula:

**ArChine Synfluid PAG 50-A series** are alcohol-started base stocks containing equal amounts, by weight, of oxyethylene and oxypropylene groups with a single terminal hydroxyl group. They are water soluble at ambient temperature and are available in a variety of molecular weights and viscosities.

**ArChine Synfluid PAG 75-W series** are diol-started base stocks containing 75 weight percent oxyethylene and 25 weight percent oxypropylene groups with two terminal hydroxyl groups. They are water soluble at temperatures below 75°C and are available in a variety of molecular weights and viscosities.

**ArChine Synfluid PAG P series** are alcohol-started base stocks of all oxypropylene groups ( $m=0$ ) with one terminal hydroxyl group. They are water insoluble and available in a variety of molecular weights and viscosities.

### Product Application

#### 1. ArChine Synfluid PAG 50-A- series

- For Metalworking Fluids
- For Gear& Bearing Oil
- For Release agent for rubber
- For Textile Fiber Lubricant
- ArChine Synfluid PAG 50-A-460/680/1000 for defoaming

#### 2. ArChine Synfluid PAG 75-W- series

- For Water-Glycol Hydraulic Fluid
- For Metalworking Fluids
- For Release agent for rubber
- For Textile Fiber Lubricant
- ArChine Synfluid PAG 75-W-18000/75-W-55000 for Quenching fluid

#### 3. ArChine Synfluid PAG P- series

- For Industrial Lubricants
- ArChine Synfluid PAG P-120/220/320 for defoaming

### Distributor Wanted

Shanghai PingYiao Trading CO., Ltd.

Address: Xuhui District, Shanghai Caoxi Yinhai Building, A1207 Room, No. 250

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Website: [www.pingyiao.com](http://www.pingyiao.com)

Tel: 86-21-64705533

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### Typical Physical Properties

| Product | ISO Grade | Viscosity Index (VI) | SUS 100°F | Viscosity 40°C (cSt) | Viscosity 100°C (cSt) | Flash Point (°C)COC | Pour Point (°C) | Specific Gravity 20/20°C | M.W. |
|---------|-----------|----------------------|-----------|----------------------|-----------------------|---------------------|-----------------|--------------------------|------|
|---------|-----------|----------------------|-----------|----------------------|-----------------------|---------------------|-----------------|--------------------------|------|

#### Water soluble grades (50%EO & 50%PO)

|                                |      |     |      |      |      |     |     |      |      |
|--------------------------------|------|-----|------|------|------|-----|-----|------|------|
| ArChine Synfluid PAG 50-A-10   |      | 97  | 55   | 8.3  | 2.36 | 124 | -62 | 0.98 | 270  |
| ArChine Synfluid PAG 50-A-20   |      | 165 | 100  | 19   | 4.59 | 196 | -51 | 1.01 | 520  |
| ArChine Synfluid PAG 50-A-30   | 32   | 197 | 170  | 33   | 7.45 | 232 | -42 | 1.03 | 750  |
| ArChine Synfluid PAG 50-A-50   |      | 212 | 260  | 53   | 11.1 | 238 | -40 | 1.03 | 1100 |
| ArChine Synfluid PAG 50-A-80   |      | 220 | 400  | 81   | 16.3 | 249 | -41 | 1.04 | 1270 |
| ArChine Synfluid PAG 50-A-100  | 100  | 215 | -    | 100  |      | 235 | -50 |      |      |
| ArChine Synfluid PAG 50-A-150  | 150  | 230 | -    | 145  | 28   | 240 | -48 | 1.05 | 2000 |
| ArChine Synfluid PAG 50-A-220  | 220  | 239 | -    | 217  | 41   | 240 | -42 | 1.06 | 2600 |
| ArChine Synfluid PAG 50-A-460  | 460  | 254 | 2000 | 440  | 70.2 | 249 | -32 | 1.06 | 2660 |
| ArChine Synfluid PAG 50-A-680  | 680  | 269 | 3520 | 700  | 117  | 243 | -29 | 1.04 | 3380 |
| ArChine Synfluid PAG 50-A-1000 | 1000 | 281 | 5100 | 1000 | 163  | 230 | -36 | 1.06 | 4500 |
| ArChine Synfluid PAG 50-A-1500 |      | -   | -    | 1500 | 233  | -   | -   | 1.06 | -    |

| Product | ISO Grade | Viscosity Index (VI) | SUS 100°F | Viscosity 40°C (cSt) | Viscosity 100°C (cSt) | Flash Point (°C)COC | Pour Point (°C) | Specific Gravity 20/20°C | M.W. |
|---------|-----------|----------------------|-----------|----------------------|-----------------------|---------------------|-----------------|--------------------------|------|
|---------|-----------|----------------------|-----------|----------------------|-----------------------|---------------------|-----------------|--------------------------|------|

#### Water soluble grades (75%EO & 25%PO)

|                                |     |     |     |      |      |     |     |      |      |
|--------------------------------|-----|-----|-----|------|------|-----|-----|------|------|
| ArChine Synfluid PAG 75-W-60   | 100 | 184 | 450 | 60   | 19.6 | 240 | -15 | 1.10 | 980  |
| ArChine Synfluid PAG 75-W-130  |     | 200 | -   | 130  | -    | 230 | 2   | 1.05 | 1400 |
| ArChine Synfluid PAG 75-W-270  |     | 207 | -   | 270  | 41.3 | 250 | -7  | 1.09 | 2500 |
| ArChine Synfluid PAG 75-W-2000 |     | 310 | -   | 2000 | 295  | -   | 1.1 | -    | -    |

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# ARCHINE

## Shanghai PingYiao Trading CO., Ltd.

|                               |                 |            |  |     |         |         |        |     |     |      |       |
|-------------------------------|-----------------|------------|--|-----|---------|---------|--------|-----|-----|------|-------|
| ArChine<br>75-W-17000         | Synfluid        | PAG        |  | 414 | 90,000  | 17,000  | 2545   | 265 | 4.4 | 1.09 | 12000 |
| <u>ArChine<br/>75-W-18000</u> | <u>Synfluid</u> | <u>PAG</u> |  | 414 | -       | 18,000  | 2,540  | 245 | 6   | 1.09 | 15000 |
| <u>ArChine<br/>75-W-55000</u> | <u>Synfluid</u> | <u>PAG</u> |  | 430 | -       | 55,000  | 7,900  | 240 | 6   | 1.09 | 30000 |
| ArChine<br>75-W-70000         | Synfluid        | PAG        |  | 500 | -       | 72,000  | 9,500  | 235 | 8   | 1.09 | 39000 |
| ArChine<br>75-W-77000         | Synfluid        | PAG        |  | -   | 380,000 | -       | 11,685 | 239 | -16 | 1.10 | -     |
| ArChine<br>75-W-100K          | Synfluid        | PAG        |  | 500 | -       | 100,000 | 14,000 | 235 | 8   | 1.09 | 52000 |

| Product | ISO<br>Grade | Visco<br>sity<br>Index<br>(VI) | SUS<br>100°F | Viscosi<br>ty<br>40°C<br>(cSt) | Viscosi<br>ty<br>100°C<br>(cSt) | Flash<br>Point<br>(°C)C<br>OC | Pou<br>r<br>Point<br>(°C) | Specifi<br>c<br>Gravity<br>20/20°<br>C) | M.W<br>. |
|---------|--------------|--------------------------------|--------------|--------------------------------|---------------------------------|-------------------------------|---------------------------|-----------------------------------------|----------|
|---------|--------------|--------------------------------|--------------|--------------------------------|---------------------------------|-------------------------------|---------------------------|-----------------------------------------|----------|

### Water insoluble grades (100%PO)

|                                   |     |     |      |     |      |     |     |      |      |
|-----------------------------------|-----|-----|------|-----|------|-----|-----|------|------|
| ArChine Synfluid PAG P-10         | 10  |     | 65   | 11  | 2.73 | 221 | -57 | 0.96 | 340  |
| <u>ArChine Synfluid PAG P-35</u>  | 32  | 169 | 165  | 33  | 6.7  | 208 | -60 | 0.98 | 790  |
| ArChine Synfluid PAG P-50         | 46  | 188 | 250  | 50  | 9.86 | 274 | -51 | 0.99 | 1100 |
| ArChine Synfluid PAG P-60         | 68  | 190 | 285  | 61  | 10.8 | 235 | -40 | 0.99 | 1020 |
| <u>ArChine Synfluid PAG P-80</u>  |     | 190 | 385  | 76  | 13.9 | 211 | -52 | 0.99 | 1350 |
| ArChine Synfluid PAG P-100        | 100 | 196 | 525  | 100 | 18.4 | 238 | -34 | 0.98 | 1420 |
| ArChine Synfluid PAG P-120        |     | 200 | 625  | 120 | 21.4 | 232 | -32 | 0.98 | 1560 |
| ArChine Synfluid PAG P-220        | 220 | 214 | 1145 | 230 | 28.9 | 235 | -29 | 0.93 | 2080 |
| <u>ArChine Synfluid PAG P-320</u> | 320 | 219 | -    | 330 | 51.7 | 225 | -32 | 1.00 | 2370 |

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