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化学之道

DowPol
道普化学

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上海道普化学有限公司2000年创建于中国最具活力的上海浦东新区自由贸易区，从创立至今始终致力于润滑材料和功能化学品领域。我们不仅为客户提供高性能的化学品，同时提供高品质的技术服务，始终和我们的客户共同成长。

Founded in 2000 and located in China (Shanghai) Pilot Free Trade Zone, Pudong District, Shanghai, Dowpol Chemical International Corp. is committed to lubricants and performance chemicals. Growing together with our customers, we provide high quality technical service as well as chemicals of excellent performance.

产品体系
Product system

Synthetic Base Oils 合成基础油	Isoparaffin Solvents 环保溶剂	Heavy Alkylbenzene 重烷基苯
Polyisobutylene 聚异丁烯	Linear Alpha Olefins 线性α烯烃	Cosmetic Materials 日化原料

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History.

道普发展之道

中国顶尖的合成基础油供应商
Leading Synthetic Base Oils Supplier in China

中国顶尖的异构烷烃供应商
Leading Isoparaffin Solvents Supplier in China

中国领先的聚异丁烯供应商
Top PIB Supplier in China

中国领先的直链烯烃供应商
Top LAOs Supplier in China

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2000 | 2003 | 2007 | 2008 | 2010 | 2012 | 2014 | 2016 | 2018 | 2019

合成基础油
The history of Synthetic Base Oils

- 代理销售进口聚α烯烃合成基础油 Distributed imported PAOs in China
- 拥有中高黏度PAO的自主知识产权 Owned intellectual property rights of Hi-Vis PAOs
- 中国第一套的高粘度PAO装置建成投产 New Hi-Vis PAOs plant started up in Shanghai SCIP
- 超高粘度茂金属PAO、烷基萘投产 Started to produce Ultra Hi-Vis mPAOs and Alkylated Naphthalene
- 世界唯一CTL III+基础油生产商潞安集团授予我公司日本市场独家代理权 Granted by Lu'An Group as exclusive agent for CTL Group III+ Base Oils in Japan

异构烷烃
The history of Isoparaffin Solvents

- 开始涉入异构烷烃业务 started IP Solvents
- 成为中国最主要的合成型异构烷烃参与者 Achieved the leader of synthetic isoparaffin solvents in China
- 世界第一套的CTL异构烷烃溶剂装置在山西建成投产 The No.1 CTL isoparaffin solvents plant started up in Shanxi province
- 新的异构烷烃装置在上海投入运营 New isoparaffin unit started up in Shanghai

聚异丁烯
The history of PIB

- 将韩国聚异丁烯引入中国 Marketing for Korean PIB
- 成为JXTG公司在中国的唯一经销商 Exclusive agent for JXTG PB in China
- 20多个行业，客户1000多家，年销售量达2万吨 20+ applications, 1000+ endusers, 20000+ MT/year

2000 | 2003 | 2007 | 2008 | 2010 | 2012 | 2014 | 2016 | 2018 | 2019

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Isoparaffin Solvents

Isoparaffin Solvents
异构烷烃溶剂

异构烷烃溶剂是高度支链化的合成碳氢溶剂，有不同闪点及挥发速率的牌号可供选择，其馏程窄、纯度高，芳烃含量低、几乎无毒无味，改善工人职业健康，更满足安全及环保要求。
异构烷烃溶剂产品的应用范围十分广泛，包括衣食住行等生活应用及涂料、油墨、橡胶、粘合剂等工业应用溶剂。

The isoparaffin solvent is a highly branched synthetic hydrocarbon solvent. The Benefit of the variety grades can make an excellent trade-off between flash point and volatility speed. It is non-toxic and odorless with low aromatic content and high purity. It is a green and safe solvents for workers and environment.
Isoparaffinic solvent products are used in a wide range of applications, including our daily living and industrial fields such as paint,ink,rubber process,adhesives and etc.

性能优势 Advantage

- 全合成高纯碳氢组成
- 不含芳烃和环烷烃的结构，以促进更好的生物降解性，具有毒性较低，高的光稳定性等特点
- 几乎无气味，由于其不含芳烃和环烷烃的结构组份
- 合成型溶剂（Synthetic），特殊合成工艺提供一个更加稳定的，结构一致的化合物
- 高纯异构烷烃，不含有硫、烯烃、多环芳烃等化合物，无色透明
- 对金属无腐蚀

- High purity fully synthetic hydrocarbon solvents.
- No aromatic and naphthenic content designed to promote better biodegradability, lower ecotoxicity and lower photochemical reactivity.
- Almost odorless, due to their low aromatic and naphthenic content.
- Special synthetic process designed to provide a more stable, synthetic product with consistent composition.
- High saturation isoparaffin with no Sulphur, olefins and PAHs.
- No corrosion to metal.

应用范围 Application

- 气雾剂 Aerosol
- 脱模剂 Mold release
- 水处理 Water treatment products
- 日化行业 Cosmetic products
- 金属加工 Metal working fluids
- 洁净燃料 Clean Heating and lighter fluids
- 油田钻井 Base fluids for drilling muds
- 工业清洗 Industrial cleaning fluids
- LDPE/EVA聚合引发剂载体 LDPE/EVA Reaction Solvent

Process of Synthetic Isoparaffin 合成异构烷烃生产工艺

高纯度合成异构烷烃溶剂，通过特殊工艺聚合加氢工艺制备的结构一致的化合物。

High-purity synthetic isoparaffin solvent with unique structurally polymerized and hydrogenated process from isobutene(or Raffinate C4).

制造工艺 Process

产品 Product	外观 Appearance	色泽 Color APHA	密度 g/cm³ (15°C) Density	闪点 (PM) °C Flash Point	馏程 °C Distillation	硫含量 wt ppm Sulfur Content	芳烃含量 wt ppm Aromatic Content	含水量 wt ppm Water Content	KB值 KB Value
DowSyn® 1016	清澈透明	<5	0.711	-	110~140	<1	<10	<10	32
DowSyn® LX	清澈透明	<5	0.756	48	172~190	<1	<10	<10	30
DowSyn® HX	清澈透明	<5	0.789	86	213~262	<1	<50	<40	28
DowSyn® 2835	清澈透明	<5	0.820	139	277~353	<1	<50	<40	25
IP 12S	清澈透明	<5	0.750	46	160~190	<1	<250	<50	31
IP L	清澈透明	<5	0.760	70	180~205	<1	<20	<10	29

CTL Fischer-Tropsch Synthesis Solvents 费托合成异构烷烃

Sinopure®系列产品是基于费托合成技术高纯碳氢溶剂，其独特的合成组份不含芳烃、环烷烃、硫、氮等结构特点，在许多应用中较传统溶剂油具有强的优势。

The Sinopure® series is a high-purity hydrocarbon solvent based on Fischer-Tropsch synthesis technology. Their unique synthetic composition, with no aromatics, naphthenic, sulfur and nitrogenous content, is designed to enhance performance over conventional solvents in many applications.

制造工艺 Process

产品 Product	外观 Appearance	色泽 Color APHA	闪点 (PM) °C Flash Point	馏程 °C Distillation	溴指数 mgBr/100g Bromine Index	硫含量 wt ppm Sulfur Content	芳烃含量 wt ppm Aromatic Content	KB值 KB Value
Sinopure® 1016T	清澈透明	<5	Report	160~195	<50	<10	<100	30
Sinopure® 1620H	清澈透明	<5	Report	190~215	<50	<10	<100	29
Sinopure® 2028H	清澈透明	<5	>90	220~260	<50	<10	<100	26
Sinopure® 2835	清澈透明	<5	>120	270~340	<50	<10	<100	23

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DowSyn® Polyalphaolefins

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DowSyn® Polyalphaolefins
聚α烯烃PAOs

DowSyn®聚α烯烃PAO合成基础油是阿尔法烯烃的聚合物，以线性α烯烃为原料，通过聚合加氢制备，它是最常用的合成基础油，使用范围最广泛，是配制高档润滑油理想的基础油。

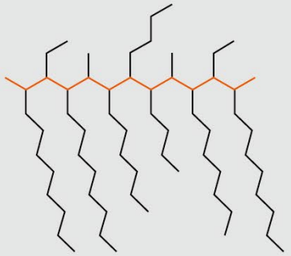
DowSyn®Polyalphaolefins PAOs are the fully synthesized, distilled and hydrogenated hydrocarbon base fluids produced from linear alphaolefin feed stocks. They are used in many synthetic products such as lubricants and greases, and have emerged as essential components in many industries and applications.

性能优势 Advantage

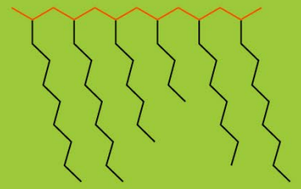
- 高的粘度指数
- 低的蒸发损失
- 低的倾点和好的低温流动性
- 优异的热氧化稳定性以延长换油周期

- Extremely high viscosity index
- Superior low volatility
- Excellent pour points and low-temperature fluidity
- Excellent thermal and oxidative stability for long drain intervals

传统PAOs
Conventional PAOs



茂金属PAOs
Metallocene PAOs



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DowSyn® Polyalphaolefins
聚α烯烃PAOs

DowSyn®Low-Viscosity PAOs 低粘度聚α烯烃

产品 Product	外观 Appearance	运动粘度 Viscosity (100°C) cSt	运动粘度 Viscosity (40°C) cSt	粘度指数 Viscosity Index	NOACK蒸发损失 wt% Noack Volatility	密度/15.6°C g/m³	倾点 °C Pour Point	闪点 (COC) °C Flash Point	酸值 mgKOH/g Acid Number	溴指数 mgBr/100g Bromine Index
DowSyn® PAO 2	无色透明 Bright & Clear	1.7	5.1	-	-	0.8	- 73	160	0.01	-
DowSyn® PAO 4	无色透明 Bright & Clear	4.05	18.12	125	12.1	0.819	- 60	227	＜0.01	1
DowSyn® PAO 6	无色透明 Bright & Clear	5.95	31.7	135	4.7	0.827	- 58	240	＜0.01	1.8
DowSyn® PAO 8	无色透明 Bright & Clear	7.95	47.9	136	3.2	0.83	- 58	265	＜0.01	0.93

DowSyn®Hi-Vis PAOs 高粘度聚α烯烃

产品 Product	运动粘度 Viscosity (100°C) cSt	运动粘度 Viscosity (40°C) cSt	粘度指数 Viscosity Index	NOACK蒸发损失 wt% Noack Volatility	密度/20°C g/ml Density	倾点 °C Pour Point	闪点 (COC) °C Flash Point	酸值 mgKOH/g Acid Number	溴指数 mgBr/100g Bromine Index
DowSyn® PAO 10	9.9	64.4	139	3.2	0.832	- 52	260	0.01	＜100
DowSyn® PAO 20	20	168	138	2.7	0.843	- 45	268	0.01	＜100
DowSyn® PAO 40	40	386	154	0.7	0.845	- 39	285	0.01	＜100
DowSyn® PAO 100	100.8	1258	170	0.6	0.853	- 33	300	0.01	＜100

DowSyn®Ultra Hi-Vis mPAOs 超高粘度茂金属聚α烯烃

Dowsyn® V系列茂金属聚 α 烯烃使用茂金属催化剂技术制造而成，在 100°C 下分别提供 600和 1000cSt 的粘度。具有优异的低温性能和粘温性能，特别适合作为高性能发动机油粘度指数改进剂及特种工业润滑油的调配。

DowSyn®Ultra Hi-Vis metallocene polyalphaolefins (mPAOs) are high-performance polyalphaolefins(mPAOs) designed to provide formulator with better blending efficiency and performance capabilities than conventional synthetic PAO. Available in 600cSt and 1000cSt at 100°C, they are well-suited for engine oils as Viscosity Index Improver and industrial oils requiring high stability under severe operating conditions.

性能优势 Advantage

- 超高的粘度指数
- 超高的粘度(600cSt and 1000cSt @ 100°C)
- 规整的梳状结构，短侧链少
- 分子量分布窄，具有好的剪切稳定性

- Very High Viscosity index
- Ultra-high viscosity (600cSt and 1000cSt @ 100°C)
- Uniform, comb-like structure with absence of short side chains
- Good shear stability with narrow molecular weight distribution

产品 Product	运动粘度 Viscosity (100°C) cSt	运动粘度 Viscosity (40°C) cSt	粘度指数 Viscosity Index	NOACK蒸发损失 wt% Noack Volatility	密度/20°C g/ml Density	倾点 °C Pour Point	闪点 (COC) °C Flash Point	酸值 mgKOH/g Acid Number
DowSyn® V600	604	7348	270	0.8	0.8495	- 21	300	0.01
DowSyn® V1000	1010	11700	310	＜0.1	0.8495	- 18	＞300	0.01

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Polyisobutylene
聚异丁烯

聚异丁烯是以异丁烯(或抽余碳4)为原料聚合而成，环保、无毒、无害，具有优异的化学稳定性(热、试剂和紫外线)，在很多行业具有广泛的用途。

Polyisobutylene is polymerized from isobutylene（Raffinate C4） with excellent chemical stability regarding heat, reagent and UV. It is Eco-friendly products with non-toxic and non-energetic and widely used in various applications based on its own characteristics and advantages.

制造工艺 Process

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Polyisobutylene
聚异丁烯

典型应用 Application

润滑油
Lubricants

润滑油添加剂
Lubricant Oil Additives

燃油添加剂
Fuel Additives

炸药乳化剂
Explosive Emulsifiers

胶粘剂
Adhesives

密封剂
Sealants

轮胎密封剂
Tire Sealant

缠绕膜
Stretch Wrap Films

电容器油
Electrical Insulating Materials

橡胶、塑料、沥青改性剂
Polymer, Rubber and Asphalt Modifiers

日化用品
Personal Care

粘蝇/鼠胶
Fly & Rat Traps

口香糖胶基
Gum Base

Low molecular PIB 低分子聚异丁烯

产品 Product	分子量 Mn Molecular Weight	运动粘度 Viscosity (100°C) cSt	运动粘度 Viscosity (40°C) cSt	闪点 (COC) °C Flash Point	倾点 °C Pour Point	标准密度 g/cm³ Density	酸值 mgKOH/g Acid Number	硫含量 ppm Sulfur Content
PB450	450	14	190	160	-31	0.854	<0.01	<1
PB680	680	80	1700	175	-14	0.874	<0.01	<1
PB950	950	230	7200	210	0	0.890	<0.01	<1
PB1300	1300	645	22000	220	3	0.896	<0.01	<1
PB1400	1400	810	27000	230	5	0.899	<0.01	<1
PB2400	2400	4700	206000	260	17	0.906	<0.01	<1
HV-15	630	31	650	160	-20	0.870	<0.01	<1
HV-35	750	85	2300	180	-15	0.880	<0.01	<1
HV100	980	220	9500	210	-7.5	0.890	<0.01	<1
HV300	1400	590	26000	230	0	0.898	<0.01	<1

Medium molecular PIB 中分子聚异丁烯

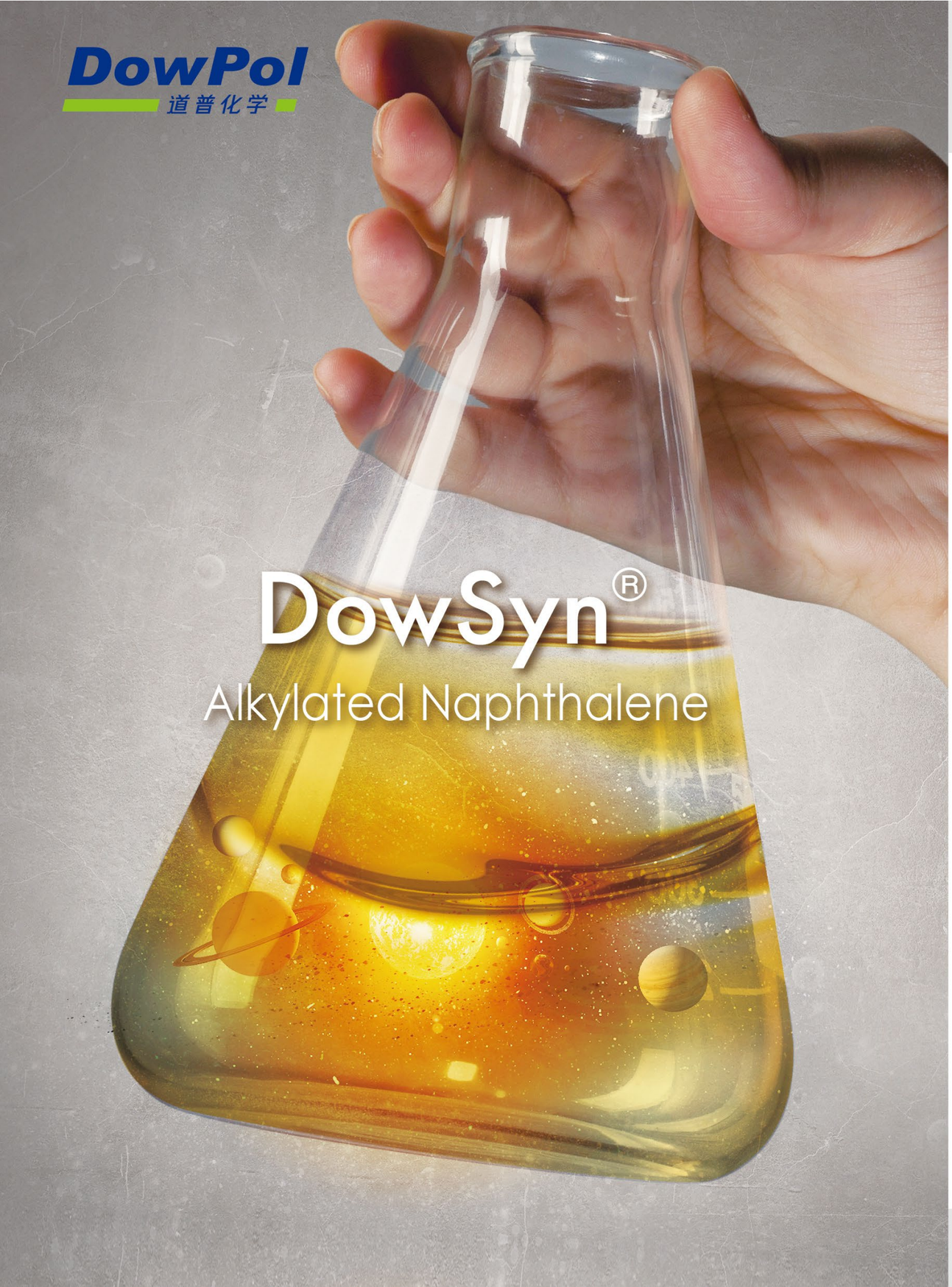
产品 Product	外观 Appearance	粘均平均分子量 Mv Molecular Weight	分子量分布 Distribution of Molecular Weight	密度 g/cm³@15°C Density	折光率 20°C Refractive Index	闪点 °C Flash Point	锥入度 25°C Penetration	蒸发度 % Evaporativity
2.5H	透明无杂质	2.7	1.8	0.92	1.507	245	-	0.05
3.5H	透明无杂质	3.5	2	0.92	1.507	245	163	0.06
4.5H	透明无杂质	4.5	2	0.92	1.508	248	135	0.07
5.5H	透明无杂质	5.5	2	0.92	1.508	248	130	0.08
6.5H	透明无杂质	6.5	2	0.92	1.508	248	115	0.08
7.5H	透明无杂质	7.5	2	0.92	1.508	248	110	0.08
8.5H	透明无杂质	8.1	2.2	0.92	1.508	248	108	0.08

High molecular PIB 高分子聚异丁烯

产品 Product	斯托丁格指数 cm³/g Staudinger Index	粘均平均分子量 Mv Molecular Weight	数均平均分子量 Mn Molecular Weight	挥发物质 wt% Volatiles	总灰分 wt% Total Ash
HB-200	487	292	257	0.12	0.02
HB-300	497	300	295	0.22	0.03
HB-400	600	400	320	0.23	0.03

High Reactive PIB 高活性聚异丁烯

产品 Product	分子量 Mn Molecular Weight	运动粘度 Viscosity (100°C) cSt	运动粘度 Viscosity (40°C) cSt	闪点 (COC) °C Flash Point	密度 g/cm³ (25°C) Density	倾点 °C Pour Point	热损耗% Heat Loss	酸值 mgKOH/g Acid Number	硫含量 ppm Sulfur Content
HRPB 1000	1000	190	4200	220	0.889	-2	0.15	<0.01	<1
HRPB 1300	1300	470	14000	240	0.9	0	0.1	<0.01	<1
HRPB 2300	2300	1600	52000	260	0.91	12	0.05	<0.01	<1



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DowSyn® Alkylated Naphthalene
烷基萘

DowSyn®AN (烷基萘) 基础油同时提供低粘度和高粘度牌号 (AN3/AN5/AN5H/AN15/AN23/AN30)，非常适用于各种汽车和工业应用中的润滑油。配方中使用烷基萘的润滑油可以具备更好的稳定性和更高的性能。对于在极端操作条件下需要高稳定性的合成润滑油应用而言，烷基萘与PAO和II/III类基础油配合使用突出更好的性能优势。

DowSyn®AN (Alkylated Naphthalene) is available from low viscosity to high viscosity grades (AN3/AN5/AN5H/AN15/AN23/AN30), It is API Group V base oils used in a wide range of automotive and industrial lubricants. Formulation with AN base oil, the lubricant is better thermo-oxidative stability and long drain interval. AN is a Co-base oil with PAO and Group II/III base oil for tier lubricant where high stability is required under extreme operating conditions.

性能优势 Advantage

- 卓越的热氧化稳定性
- 优异的添加剂溶解性
- 闪点高，蒸发损失低
- 极好的水解安定性
- 与密封材料良好的相容性

- Superior thermo-oxidative stability
- Improved solubility properties
- High Flash Point with Lower volatility
- Excellent hydrolytic stability
- Good seal swell properties

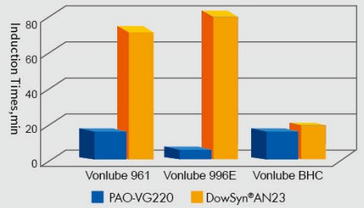
热氧化安定性PDSC (Thermal Oxidation Stability PDSC)

- PDSC压差法扫描量热法 (ASTM D6186)

PDSC-Pressure Differential Scanning Calorimetry

与同等粘度级别的聚α烯烃(PAO)相比，烷基萘DowSyn®AN23的抗氧化性能优势非常明显。

PDSC Oxidation induction Times@180°C with 0.2% additive



PAO-VG 220 cSt @ 40°C- Blend adjusted to equal viscosyty of AN23.
PAO-VG 220是PAO6与PAO40调和而成与AN23同等粘度

产品 Product	外观 Appearance	密度 (20°C) g/cm³ Density	运动粘度 mm²/s Viscosity (100°C) cSt	运动粘度 mm²/s Viscosity (40°C) cSt	粘度指数 Viscosity Index	闪点 (COC) °C Flash Point	倾点 °C Pour Point	酸值 mgKOH/g Acid Number	苯胺点 °C Aniline Point	诺亚克蒸发损失% Noack Volatility
DowSyn® AN3	淡黄色 Yellow B&C	0.920	3.2	17.4	4	205	- 51	0.01	31.5	-
DowSyn® AN5	淡黄色 Yellow B&C	0.910	4.52	26.5	68	220	- 50	0.01	32	18.5
DowSyn® AN5H	淡黄色 Yellow B&C	0.910	4.8	29	75	226	- 39	0.01	32	12
DowSyn® AN15	黄色 Yellow B&C	0.885	15.1	140	109	260	- 40	0.01	96	2.2
DowSyn® AN23	黄色 Yellow B&C	0.875	20.50	206	116	288	- 39	0.01	110	1.3
DowSyn® AN30	黄色 Yellow B&C	0.872	29.85	301	135	320	- 20	0.01	125	<1

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PriEco® Synthetic Esters

YOUR CHEMICAL SOLUTION

PriEco® Synthetic Esters
合成酯

PriEco®合成酯非常适合润滑油应用，包括汽车、纺织机械、航空和压缩机润滑油等。它们既可用作独立的基础油，也可以与其他基础油结合使用。大多数 PriEco®合成酯在本质上是生物可降解的，这使它们可以在润滑油会与环境接触的应用中成为一个适当的选择，PriEco®2xxx是双酯，3xxx是多元醇酯、6xxx是不饱和多元醇酯、8xxx是苯多酸酯。
其产品主要优势是良好的热稳定性和氧化稳定性、低挥发性、清净性、润滑性、生物降解性。

PriEco®Synthetic Esters are an ideal base oils for many applications including automotive, textile, aerospace and compressor oils. They can be used as solo or co-base oils . Most of the PriEco®synthetic esters are biodegradable and good choice for environment friendly products. PriEco®2xxx is the di-ester, 3xxx is the polyol ester, 6xxx is the unsaturated polyol ester, 8xxx is the trimellitate ester.
The main advantages of its products are good thermal and oxidative stability, low volatility, detergency, lubricity and biodegradability.

产品 Product	密度 (20 °C) g/cm³ Density	运动粘度 Viscosity		粘度指数 Viscosity Index	闪点 (COC) °C Flash Point	倾点 °C Pour Point	酸值 mgKOH/g Acid Number
		(100°C) cSt	(40°C) cSt				
PriEco® 2006	0.917	3.30	11.68	155	223	<-60	<0.03
PriEco® 2010	0.907	4.04	16.41	152	240	<-60	0.01
PriEco® 2013	0.925	5.05	22.28	163	260	-53	0.01
PriEco® 3000	0.940	4.40	19.50	140	250	-51	0.05
PriEco® 3007	0.960	6.90	42.75	122	269	-53	0.01
PriEco® 3009	0.990	5.00	24.50	134	266	-58	0.04
PriEco® 3010	0.970	9.33	58.00	143	282	-40	0.05
PriEco® 3030	0.995	25.4	291	113	305	-28	0.08
PriEco® 3040	0.966	25.6	375	90	290	-21	0.05
PriEco® 6000	0.900	9.53	46.45	195	345	-45	0.35
PriEco® 6001	0.910	13	65	208	310	-40	0.50
PriEco® 8002	0.969	11.71	115.3	88	260	-30	0.05
PriEco® 8005A	0.973	9.74	80	100	265	-40	0.02
PriEco® 8018	0.985	14.70	136	108	275	-40	0.01
PriEco® 8046	0.960	6.08	46.87	61	235	-45	0.01

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YOUR CHEMICAL SOLUTION

Heavy Alkylbenzene
重烷基苯

重烷基苯(HAB)具有极低的倾点、窄的馏程、极好的水解安定性、良好的添加剂溶解性，广泛用作冷冻机油、电器用油、增塑剂和导热油的基础油，也可以作为烷基苯磺酸钙类内燃机油的清净分散剂的优良原料。

Heavy alkylbenzene (HAB) is synthetics base oils with extremely low pour point, narrow distillation range, excellent hydrolysis stability, and good solubility. It is widely used as base oil for refrigeration oil, electrical oil, plasticizer and heat transfer oil. It can be used as react material of additive in engine oil.

产品 Product	密度(15.6 °C) g/cm³ Density	运动粘度 Viscosity		粘度指数 Viscosity Index	闪点 (COC) (°C) Flash Point	倾点 (°C) Pour Point	酸值 mgKOH/g Acid Number	苯胺点 °C Aniline Point	色度 ASTM	馏程 °C Distillation
		(100°C) cSt	(40°C) cSt							
SA701	0.8560	-	3.4	-	134	<-70	0.01	57.5	<0.5	267~283
AB3	0.8762	3.19	15.69	40	184	-66	0.01	49.6	0.2	338~372
AB4	0.8741	3.85	20.90	52	190	-62	0.01	60.0	0.9	340~390
AB6	0.8746	5.70	39.00	81	220	-45	0.01	74.8	2.5	329~400

CTL 基础油

High-quality Base Oils based on Coal to Liquids(CTL) Technology

基于煤制油技术的高品质基础油

制造工艺 Process

性能优势 Advantage

- 高的粘度指数
- 优异的热氧化稳定性
- 低的蒸发损失
- 好的低温流动性

- High viscosity index
- Excellent high-temperature thermal/oxidation stability
- low evaporation loss
- Excellent low-temperature flow property

产品 Product	密度(20 °C) g/cm³ Density	运动粘度 Viscosity		粘度指数 Viscosity Index	闪点 (COC) °C Flash Point	倾点 °C Pour Point	酸值 mgKOH/g Acid Number	诺亚克蒸发损失% Noack Volatility
		(100°C) cSt	(40°C) cSt					
ICCSYN® 3	0.808	2.800	9.93	132	187	- 45	<0.01	28.2
ICCSYN® 4	0.811	4.194	18.42	135	214	- 39	<0.01	11.5
ICCSYN® 6	0.820	6.179	31.96	146	247	- 36	<0.01	5.7
ICCSYN® 10	0.830	11.89	77.95	147	286	- 48	<0.01	1.2

Additives
添加剂

Pour Point Depressant 降凝剂

NeoFlex® 680是新型合成烃型降凝剂，具有优异的降凝性能，可用于发动机油、齿轮油和各种工业油中。

NeoFlex® 680 Pour Point Depressant is based on the Neo Synthetic Hydrocarbon chemistry. It delivers good low-temperature performance that adapts to a variety of base oils for use in automotive and industrial lubricants.

性能优势 Advantage

- 在各类基础油中均能最佳化的控制蜡的结晶，达到降凝效果
- 剂量少，粘度低，流动性好
- 对加氢基础油效果特别有效

- Modifies wax crystal growth in the base oil, helping to achieve the best pour point depressant activity
- Lower dosage with good performance, Low viscosity and good fluidity
- Keeps excellent efficiency with Group III and Group III+ base stocks

产品 Product	密度 (20 ℃) g/cm³ Density	运动粘度mm²/s(100 ℃) Viscosity	闪点(COC)℃ Flash Point	倾点 ℃ Pour Point
NeoFlex® 680	0.845	21	225	-21

Typical pour point depressing effect 典型降凝效果

A.Group III and Group III plus base oils III类油和III+基础油

基础油Base Oils	100N	250N	Yubase 4 Plus	4cSt	6cSt
厂家 Resource	Shell GTL	Shell GTL	SK	ADNOC	ADNOC
倾点 Pour Point, ℃	- 36	- 33	- 18	- 23	- 16
@ 0.2%	< - 60	- 48	- 36	- 39	- 39
@ 0.4%	-	-	- 39	- 39	- 39
基础油 Base Oils	Yubase 4	Yubase 6	Utra-S4	Utra-S6	
厂家 Resource	SK	SK	S-Oil	S-Oil	
倾点Pour Point, ℃	- 15	- 12	- 20	- 17	
@ 0.2%	- 39	- 36	- 42	- 39	
@ 0.4%	- 39	- 42	-	-	

B.Grou II Base Oils II 类基础油

基础油Base Oils	150N	150N	150N	150N
厂家Resource	上炼SinoPec-Shanghai	台塑Formosa	中海油CNCOOC	茂名 SinoPec-Maoming
倾点 Pour Point, ℃	- 24	- 24	- 21	- 16
@ 0.2%	- 39	- 39	- 39	- 39
@ 0.4%	- 39	- 42	- 42	- 42
基础油 Base Oils	150N	500N	600N	500N
厂家 Resource	汉地阳光HDS	汉地阳光HDS	GS-Caltex	台塑 Formosa
倾点 Pour Point, ℃	- 26	- 20	- 12	- 15
@ 0.2%	- 51	- 36	- 31	- 35
@ 0.4%	- 51	- 36	-	-

C.Group I Base Oils I 类基础油

基础油 Base Oils	150SN	200SN	400SN
厂家Resource	大连 PetroChina-Dalian	大连 PetroChina-Dalian	大连PetroChina-Dalian
倾点Pour Point, ℃	- 15	- 14	- 14
@ 0.3%	- 24	- 21	- 21
@ 0.5%	- 24	- 24	- 21

*Performance of the product described herein should be verified by testing

我司还提供各种特殊添加剂，如：DW 2001非铁金属减活剂和无灰极压添加剂、DW 7001高效无灰胺型抗氧剂、DW 7007高效无灰胺型抗氧剂、DW 7008高效胺型抗氧剂、DW 7011 固体酚型抗氧剂、DW 7020无灰复合添加剂、G5100无灰齿轮油复合添加剂等。

We also offer a variety of special additives such as: DW 2001 additive, DW 7001 antioxidant additive,DW 7007 antioxidant additive, DW 7008 antioxidant additive, DW 7011 antioxidant additive, DW 7020 additive, G5100 ashless additive for gear oils.

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YOUR CHEMICAL SOLUTION

Linear Alpha Olefin

线性α烯烃

α-烯烃(α-olefin，Alpha Olefins)指双键在分子链端部的单烯烃，分子式是R-CH=CH_2，其中R为烷基。若R为直链烷基，则称为直链 α-烯烃(LAO)，其用途广泛，是一种基础化工原料。

Linear alpha olefins (LAO) are alkenes with a chemical formula C_xH_{2x}, distinguished from other mono-olefins with a similar molecular formula by linearity of the hydrocarbon chain and the position of the double bond at the primary or alpha position. Linear alpha olefins are a range of industrially important and basic material.

应用领域 Applications

聚乙烯 Polyethylene (C4、C6、C8)

共聚单体，用作专业塑料制品的强度改性剂

Comonomer used as a strength modifier for specialty plastic products

钻井液 drilling fluid (C16、C18)

异构化为可生物降解的海上钻井液和纸张施胶剂的原材料

Raw materials for isomerization into biodegradable offshore drilling fluids and paper sizing agents

合成润滑油 Synthetic lubricant (C8、C10、C12)

作为聚α烯烃(PAO)的原料

Used as a raw material for polyalphaolefins (PAO)

润滑油添加剂、功能性流体 Lubricating oil additive, functional fluid (C20-C24)

洗涤剂和润滑油的防腐蚀添加剂

Anti-corrosion additives for detergents and lubricants

表面活性剂 Surfactant (C12、C14、C16)

通常进一步功能化以用于表面活性剂：烯烃磺酸盐、烷基胺氧化物、洗涤剂醇

Usually further functionalized for surfactants: olefin sulfonates, alkylamine oxides, detergent alcohols

合成蜡 Synthetic wax (C24-28、C30+)

蜡烛、流变和表面应用、塑料加工，以及若干其他专业用途，例如美容润肤剂、油墨、色母粒和蜡笔

Candles, rheological and surface applications, plastic processing, and a number of other professional uses, such as cosmetic emollients, inks, masterbatches and crayons

产品 Product	含量 wt% content	正构a烯烃含量 wt% Normal a-olefin Content	链烷烃含量 wt% Alkane Content	密度(15.6°C) kg/m³ Density	闪点°C Flash Point	熔点 °C Melting Point
C6	99.99	99.22	0.13	680	-	-
C8	99.90	97.76	0.21	720	-	-
C10	99.11	96.55	0.23	750	48.9	-
C12	98.80	95.41	0.22	763	77.2	-
C14	98.92	94.01	0.23	776	107	-
C16	98.76	92.54	0.25	785	132	-
C18	98.29	91.16	0.26	793	154	-
C20-24	98.30	86.70	0.30	814	183	35.6
C24-28	78.45	68.80	-	825	-	63
C30+	88.59	71.40	-	830	-	71.5