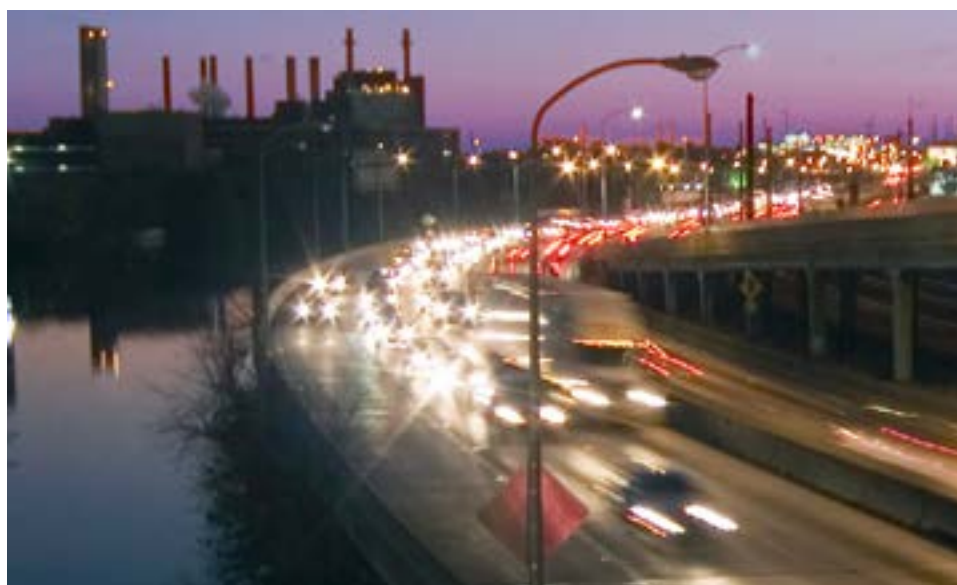


# ENGINE OILS

## **HiTEC<sup>®</sup> 5825H**

OCP Viscosity Index Improver



Shear Stable Solid OCP For Engine Oil Applications

## HiTEC<sup>®</sup> 5825H OCP Viscosity Index Improver

Shear Stable Solid OCP For Engine Oil Applications

### Key Performance Benefits

HiTEC<sup>®</sup> 5825H additive is a solid amorphous olefin copolymer designed for use as a Viscosity Index Improver for engine oils. HiTEC<sup>®</sup> 5825H additive imparts excellent shear stability and low temperature properties to passenger car motor oils and heavy duty engine oils.

HiTEC<sup>®</sup> 5825H additive benefits include:

- Excellent low temperature properties
- Solid form, easy to dissolve in base oils
- Applicable in a wide range of base oils
- Covers key Approvals (ACEA, Daimler, Volvo...) when used with the appropriate package

### Recommended Dosage

HiTEC<sup>®</sup> 5825H may be dissolved in a wide range of base oils at 12.0% wt. to produce a liquid HiTEC<sup>®</sup> 5825H Viscosity Index Improver. The following chart includes typical treat-rates for HiTEC<sup>®</sup> 5825H additive:

SAE J 300 Viscosity Grade	Liquid HiTEC <sup>®</sup> 5825H Treat, % wt.
10W-40	10.5 - 11.5
15W-40	8.5 - 9.5
20W-40	8.0 - 9.0

### Typical Characteristics

#### Properties of HiTEC<sup>®</sup> 5825H:

Appearance:	Clear to grey solid
Density at 15°C, g/ml:	0.875
Propylene Content, % wt:	52 max.

#### Properties of 12.0% wt. HiTEC<sup>®</sup> 5825H dissolved in ExxonMobil 150N AP/E:

Colour, ASTM D1500:	0.7
Density at 15°C, g/ml:	0.869
Flash Point, °C (PMCC):	210
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s:	1149
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s:	14200
SSI <sup>1</sup> (Bosch) ASTM D6278, % TP Loss:	21.6
Thickening Power <sup>1</sup> at 100°C, cSt:	6.52

### Handling Information

Max Dissolving Temp: 150 °C with nitrogen blanketing  
Shelf Life: 36 months

<sup>1</sup> Measured at 11.5 wt% liquid VI Improver in RO-2001 reference oil (KV100C = 5.0 +/- 0.05 cSt)

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### Formulation Demonstrations

#### SAE 20W-50 Demonstration Oil

Composition	Function	% wt.
Liquid HiTEC <sup>®</sup> 5825H	VI Improver	8.1
HiTEC <sup>®</sup> 9325G	DI Package	6.8
ExxonMobil 150N	Base Oil	14.8
ExxonMobil 600N	Base Oil	70.2
HiTEC <sup>®</sup> 672	PPD	0.1
Properties		J300 Specification
Kinematic Viscosity at 100°C	16.3-21.9	19.44
CCS at -15°C	9,500 max	9184
MRV TP-1 at -20°C, cP	60,000 max	33,900
Yield Stress, gms	–	0
HSV at 150°C & 10 <sup>6</sup> s <sup>-1</sup> , cP	3.7 min.	5.16

#### SAE 15W-40 Demonstration Oil

Composition	Function	% wt.
Liquid HiTEC <sup>®</sup> 5825H	VI Improver	9.1
HiTEC <sup>®</sup> 9325G	DI Package	6.8
ExxonMobil 150N	Base Oil	59.0
ExxonMobil 600N	Base Oil	25.0
HiTEC <sup>®</sup> 672	PPD	0.1
Properties		J300 Specification
Kinematic Viscosity at 100°C	12.5-16.3	14.37
CCS at -20°C	7,000 max	6132
MRV TP-1 at -25°C, cP	60,000 max	27,100
Yield Stress, gms	–	0
HSV at 150°C & 10 <sup>6</sup> s <sup>-1</sup> , cP	3.7 min.	4.13