

FUNCTIONAL V-34 I

VISCOSITY INDEX IMPROVER

APPLICATION:

FUNCTIONAL V-34 I is a thermo-stable viscosity index (V.I.) improver that may be used in preparing industrial fluids and lubricants. For the same increase in viscosity, **FUNCTIONAL V-34 I** gives a higher viscosity index than other V.I. improvers.

COMPOSITION:

The active thickener in **FUNCTIONAL V-34 I** is a hydrocarbon polymer. The diluent in **FUNCTIONAL V-34 I** is a group III mineral oil.

| Typical Properties | |
|---------------------|------------------------|
| Specific Gravity | 0.83 |
| Lbs per Gallon | 6.9 |
| Flash Point | 210°C (410°F) |
| Kinematic Viscosity | 3000-4000 cSt at 100°C |
| Color | colorless |

TREATMENT LEVEL:

The treatment level of **FUNCTIONAL V-34 I** depends on the desired increase in viscosity index. Examples for treat level 10 and 15% are in the table below:

| OIL | TREATMENT % | KV 40 | KV 100 | VI |
|---------------|-------------|-------|--------|-----|
| GROUP III OIL | 0 | 19.9 | 4.39 | 133 |
| | 10 | 41.5 | 8.99 | 206 |
| | 15 | 59.5 | 12.8 | 221 |

HANDLING:

Due to the viscosity of **FUNCTIONAL V-34 I**, elevated temperature (up to approximately 90°C or 200°F) can facilitate handling. Safe handling precautions are the same as those to be taken with the base oil; see the current Material Safety Data Sheet.

This Technical Data Sheet and the Material Safety Data Sheet contain information believed to be accurate and reliable. No warranty is made, however, to information beyond the control of FUNCTIONAL PRODUCTS INC. The engineering and management personnel of the user are responsible for determining the suitability of this or any product for any specific application, and this information is offered to them for that purpose.

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