

BERYLANE

US ORIGIN

HIGHLY REFINED LIGHT BASE OILS FOR LUBRICANTS AND METALWORKING FLUIDS

TYPICAL VALUES

| PROPERTIES | UNITS | METHODS | BERYLANE 210 | BERYLANE 235 | BERYLANE 260 | BERYLANE 266 | BERYLANE 270 | BERYLANE 320 |
|---------------------------------|--------------------|--------------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| DENSITY AT 15°C (59°F) | kg/m3 (Lb/gal) | ASTM D4052 | 810 (6.76) | 820 (6.84) | 824 (6.88) | 825 (6.88) | 829 (6.92) | 841 (7.02) |
| SAYBOLT COLOR | Unit color Saybolt | ASTM D6045 | +30 | +30 | +30 | +30 | +30 | +30 |
| BOILING RANGE: INITIAL POINT | °C (°F) | ASTM D86 | 205 (401) | 231 (448) | 257 (495) | 260 (500) | 264 (507) | 315 (599) |
| BOILING RANGE: DRY POINT | | | 241 (466) | 266 (511) | 300 (572) | 308 (586) | 312 (594) | 375 (707) |
| FLASH POINT | °C (°F) | ASTM D93 | 80 (176) | 105 (221) | 121 (250) | 131 (268) | 135 (275) | 167 (333) |
| AROMATIC CONTENT | mg/kg (ppm) | UV Internal method | < 100 | < 100 | < 100 | < 130 | < 150 | < 300 |
| BENZENE CONTENT | mg/kg (ppm) | ASTM D6229 | <1 | <1 | <1 | <1 | < 1 | <1 |
| REFRACTIVE INDEX AT 20°C (68°F) | - | ASTM D1218 | 1.443 | 1.4513 | 1.4533 | 1.4546 | 1.4554 | 1.4614 |
| ANILINE POINT | °C (°F) | ASTM D611 | 72 (162) | 80 (176) | 85 (185) | 88 (190) | 90 (194) | 98 (208) |
| VAPOUR PRESSURE AT 20°C (68°F) | kPa | Calculated | 0.015 | 0.002 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| VISCOSITY: AT 20°C (68°F) | mm ² /s | ASTM D445 | 2.46 | 3.73 | 5.65 | 7.2 | 7.39 | 17.40 |
| | | | AT 40°C (104°F) | 1.67 | 2.40 | 3.55 | 4.22 | 4.33 |
| POUR POINT | °C (°F) | ASTM D97 | -51 (-60) | -39 (-38) | -20 (-4) | -9 (-15.8) | -9 (-15.8) | 3 (37) |

PURITY

| | | | | | | |
|---------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| FDA 21CFR 178.3620 (B): WHITE MINERAL OIL | x | x | x | x | x | x |
| CARBON CHAIN LENGTH HSPA* DEFINED IN THE FRAMEWORK OF REACH** | C11 - C14 | C13 - C16 | C15 - C20 | C15 - C20 | C15 - C20 | |
| C.A.S. NUMBER | 64742-47-8 (R***) | 64742-46-7 (R***) | 64742-46-7 (R***) | 64742-46-7 (R***) | 64742-46-7 (R***) | 64742-55-8 |

Typical values provided are based on TSUSA's current knowledge; TSUSA reserves the right to amend these figures.

Data provided on this table is issued in good faith to the best of our knowledge, but no warrantee, expressed or implied, is given.

*HSPA: Hydrocarbon Solvents Producers Association

**REACH: Regulation (EC) No 1907/2006

***R: Related C.A.S. number



ACEITES DE BASE LIVIANOS ALTAMENTE REFINADOS PARA LUBRICANTES Y FLUIDOS DE TRABAJO DE LOS METALES

VALORES TÍPICOS

| PROPIEDADES | UNIDADES | METODOS | BERYLANE 210 | BERYLANE 235 | BERYLANE 260 | BERYLANE 266 | BERYLANE 270 | BERYLANE 320 |
|----------------------------------------|----------------------|-------------------|----------------|--------------|--------------|--------------|--------------|--------------|
| DENSIDAD A 15°C (59°F) | kg/m3 (Lb/gal) | ASTM D4052 | 810 (6.76) | 820 (6.84) | 824 (6.88) | 825 (6.88) | 829 (6.92) | 841 (7.02) |
| COLOR SAYBOLT | Unidad color Saybolt | ASTM D6045 | +30 | +30 | +30 | +30 | +30 | +30 |
| INTERVALO DE EBULLICION: PUNTO INICIAL | °C (°F) | ASTM D86 | 205 (401) | 231 (448) | 257 (495) | 260 (500) | 264 (507) | 315 (599) |
| INTERVALO DE EBULLICION: PUNTO FINAL | | | 241 (466) | 266 (511) | 300 (572) | 308 (586) | 312 (594) | 375 (707) |
| PUNTO DE INFLAMACION PENSKY MARTENS | °C (°F) | ASTM D93 | 80 (176) | 105 (221) | 121 (250) | 131 (268) | 135 (275) | 167 (333) |
| CONTENIDO EN AROMATICOS | mg/kg (ppm) | UV Método interno | < 100 | < 100 | < 100 | < 130 | < 150 | < 300 |
| CONTENIDO EN BENZENO | mg/kg (ppm) | ASTM D6229 | <1 | <1 | <1 | <1 | < 1 | <1 |
| INDICE DE REFRACCION A 20°C (68°F) | - | ASTM D1218 | 1.443 | 1.4513 | 1.4533 | 1.4546 | 1.4554 | 1.4614 |
| PUNTO DE ANILINA | °C (°F) | ASTM D611 | 72 (162) | 80 (176) | 85 (185) | 88 (190) | 90 (194) | 98 (208) |
| PRESION DE VAPOR A 20°C (68°F) | kPa | Calculada | 0.015 | 0.002 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| VISCOSIDAD: A 20°C (68°F) | mm ² /s | ASTM D445 | 2.46 | 3.73 | 5.65 | 7.2 | 7.39 | 17.40 |
| | | | A 40°C (104°F) | 1.67 | 2.40 | 3.55 | 4.22 | 4.33 |
| PUNTO DE CONGELACION | °C (°F) | ASTM D97 | -51 (-60) | -39 (-38) | -20 (-4) | -9 (-15.8) | -9 (-15.8) | 3 (37) |

PUREZA

| | | | | | | |
|----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| FDA 21 CFR 178.3620 (B), WHITE MINERAL OIL | x | x | x | x | x | x |
| LONGITUD DE LA CADENA DE CARBONO HSPA* DEFINIDA EN EL MARCO DEL REGISTRO REACH** | C11 - C14 | C13 - C16 | C15 - C20 | C15 - C20 | C15 - C20 | |
| NÚMERO C.A.S. | 64742-47-8 (R***) | 64742-46-7 (R***) | 64742-46-7 (R***) | 64742-46-7 (R***) | 64742-46-7 (R***) | 64742-55-8 |

Los valores típicos dados se basan en el conocimiento actual de TSUSA; TSUSA se reserva el derecho de modificar estas cifras.

Los datos proporcionados en esta tabla se emiten de buena fe con respecto a lo mejor de nuestros conocimientos, sin embargo ninguna garantía esta dada o implícita.

*HSPA: Asociación de Productores de disolventes de hidrocarburos

**REACH: Regulación (EC) No 1907/2006

***R: Número C.A.S. relacionado