

KJL 704, 704-T & 705

Diffusion Pump Oil



Kurt J. Lesker[®]
Company

VACUUM MART[™]
DIVISION

Applications

- Glass and decorative coatings
- Heat treating
- Optical coatings
- Automotive

Features

- High resistance to oxidation
- Thermal stability
- Faster pumping, faster cycling
- Reduced down time
- Low maintenance
- 704-T offers a higher resistance to crystallization

Why buy from KJLC[®]?

- Worldwide delivery
- Qualifying samples available
- KJLC[®] is a full line supplier of vacuum pumps spanning all applications
- Downloadable MSDS sheets for our entire fluids product line
- Reclaimable for greater savings

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Specifications Comparison: 704 Silicone Fluids

	704 (KJLC®)	704-T (KJLC®)	704 (Dow Corning®)
Ultimate Vacuum (torr): Untrapped	10 ⁻⁷ to 10 ⁻⁸	10 ⁻⁷ to 10 ⁻⁸	10 ⁻⁷ to 10 ⁻⁸
Ultimate Vacuum (torr): Trapped	to 10 ⁻¹¹	to 10 ⁻¹¹	to 10 ⁻¹¹
Extrapolated Vapor Pressure (torr) @ 25°C	8.4 x 10 ⁻⁸	8.4 x 10 ⁻⁸	2 x 10 ⁻⁸
Specific Gravity @ 25°C	1.10	1.07	1.07
Viscosity (cSt) @ 25°C	41.2	37	39
Flash Point, Open Cup	220°C	220°C	221°C
Boiling Point @ 0.06 Torr	223°C	210°C	215°C
Typical Boiler Temp.	230°C	230°C	220°C
Surface Tension (dynes/cm)	37.5	37.3	37.5
Heat of Vaporization (kcal/g mole)	22.0 / 200°C	22.0 / 200°C	25.5 / 200°C
Molecular Description	Tetamethyl Tetraphenyl Trisiloxane	Tetamethyl Tetraphenyl Trisiloxane	Tetamethyl Tetraphenyl Trisiloxane
Molecular Weight	484	490	484

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Specifications Comparison: 705 Silicone Fluids

	705 (KJLC®)	705 (Dow Corning®)
Ultimate Vacuum (torr): Untrapped	10 ⁻⁹ to 10 ⁻¹⁰	10 ⁻⁹ to 10 ⁻¹⁰
Ultimate Vacuum (torr): Trapped	to 10 ⁻¹¹	to 10 ⁻¹¹
Extrapolated Vapor Pressure (torr) @ 25°C	3 x 10 ⁻¹⁰	3 x 10 ⁻¹⁰
Specific Gravity @ 25°C	1.09	1.09
Viscosity @ 25°C	165 - 185	175
Flash Point, Open Cup	243°C	243°C
Boiling Point @ 0.06 Torr	245°C	245°C
Typical Boiler Temp.	248 - 265°C	250 - 270°C
Surface Tension (dynes/cm)	36.5	36.5
Heat of Vaporization (kcal/g mole)	28.2 / 250°C	28.2 / 250°C
Molecular Description	Pentaphenyl Trimethyl Trisiloxane	Pentaphenyl Trimethyl Trisiloxane
Molecular Weight	546	546

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