

Main Properties of Apiezon® Greases

| Property | AP101 | H Grease | L Grease | M Grease | N Grease |
|---|--------------------------|-------------------------|-------------------------|------------------------|--------------------------|
| Main areas of application | Anti-Seize | High Temperature | Ultra High Vacuum | High Vacuum | Cryogenic |
| Typical working temperature range °C °F | -40 to 180 -40 to 365 | -10 to 240 14 to 464 | 10 to 30 50 to 86 | 10 to 30 50 to 86 | -269 to 30 -452 to 86 |
| Dropping point - ASTM.D 566-02, °C °F | >200 >392 | Does not melt | 42 to 52 107 to 126 | 40 to 60 104 to 140 | 42 to 52 108 to 126 |
| Vapour pressure @ 20°C / 68°F, Torr | <1.0 x 10 ⁻⁶ | 1.7 x 10 ⁻⁹ | 7.0 x 10 ⁻¹¹ | 1.7 x 10 ⁻⁹ | 6.0 x 10 ⁻¹⁰ |
| Relative density @ 20°C / 68°F | 0.981 | 0.918 | 0.896 | 0.894 | 0.911 |
| Resistance to radiation | Not Recommended | Not Recommended | Yes | Yes | Not Recommended |
| Lubricity 4 Ball Test - ASTM.D 2596-15, kg | 450 | 250 | 150 | 140 | 150 |
| Outgassing characteristics - ASTM.E 595-15 TML CVCM | N/A N/A | <1% <0.1% | <1% <0.1% | N/A N/A | <1% <0.1% |
| Coefficient of expansion per °C over 20-30°C | 0.00066 | 0.00077 | 0.00076 | 0.00075 | 0.00072 |
| Thermal conductivity @ 20°C, W/m °C | N/A | 0.216 | 0.194 | 0.194 | 0.194 |
| Electrical strength, V/mil (0.001") | N/A | 800 | 730 | 850 | 820 |

For further information please contact the **Apiezon Technical Helpline**

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