

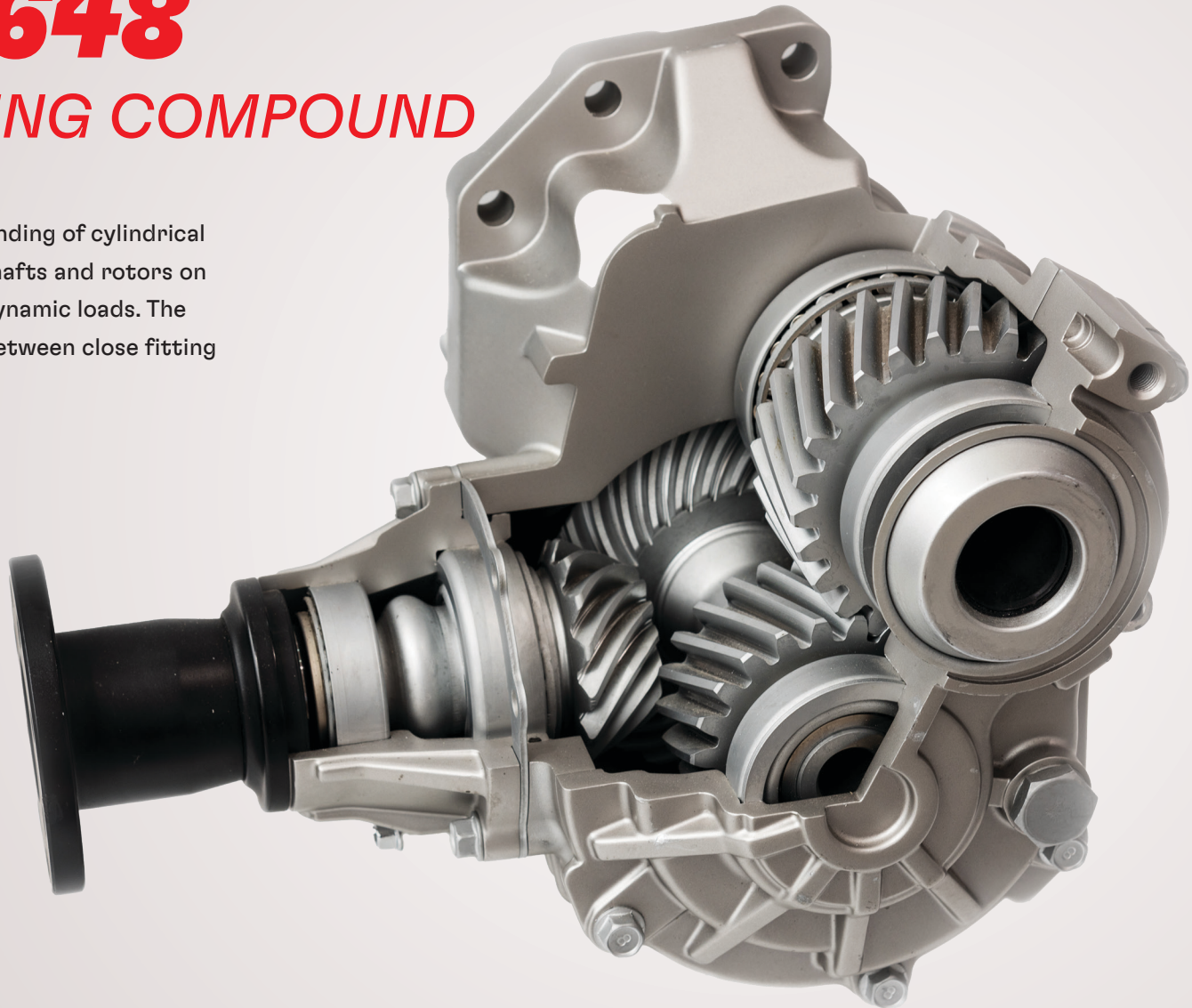
LOCTITE[®] 648

ANAEROBIC RETAINING COMPOUND

Room temperature curing retaining compound for bonding of cylindrical fitting parts like bearings, sprockets and gears on shafts and rotors on electric motor shafts providing high resistance to dynamic loads. The product cures when confined in the absence of air between close fitting metal surfaces.

BENEFITS

- High temperature resistance
 - › Service temperature from -55 - 180°C
- High strength
 - › >27.0 N/mm² (3900.0 psi) shear strength on steel
- Can be applied to slightly oily substrates, works on on passive substrates such as stainless steel and plated surfaces
- Low viscosity
 - › 500.0 mPa.s (cP)
- Resistant to oils, gasoline, break fluids



AREAS OF APPLICATION

Transmission, gearbox, electric motors

- Bearings, sprockets and gears on shafts
- Rotors on electric motor shafts
- Spline assemblies

PERFORMANCE CHARACTERISTICS

Outstanding strength and resistance enables more compact and lighter design of gears and drivetrain components without compromising performance or durability

TECHNICAL DATA

Product family	Anaerobic acrylic
Color	Green
Fluorescence	Positive under UV light
Viscosity (Brookfield) at 25°C (mPa·s)	500
Compressive Shear Strength (N/mm ²), ISO 10123	≥ 27 (Steel, Stainless Steel)
Compressive Shear Strength (N/mm ²), ISO 10123	18 (Aluminum)
Operating temperature (°C)	Up to 180

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