



**INTERFERENCE FITS**  
Only 20-40% metal to metal contact



**INTERFERENCE FITS**  
Ineffective load transmission due to uneven stress concentration



**LOCTITE**  
100% metal to metal contact



**LOCTITE**  
Effective load transmission due to uniform stress distribution

# WHY USE A RETAINING COMPOUND?

When you're fitting a bearing onto a shaft or into a housing, even the most precise machining can leave tiny gaps between the metal surfaces. These gaps mean less surface contact, which puts more stress on the areas that do touch.

Over time, that concentrated stress—especially with vibration—can lead to fretting, wear, and premature failure.

**Loctite Retaining Compound** solves this problem. Applied as a liquid, it flows into those microscopic gaps and cures, to form a solid thermoset plastic. This effectively locks the parts together and distributes load evenly across the whole contact surface.

**IF YOU'RE LOOKING TO INCREASE RELIABILITY AND REDUCE COMEBACKS, THIS IS AN EASY WIN AT THE BENCH.**

## Key Benefits:

- **Stronger assemblies** – Turns two parts into one solid unit.
- **Longer component life** – Reduces wear and protects against fretting and corrosion.
- **Better load distribution** – Minimises stress concentrations and related failures.
- **Corrosion protection** – Prevents galvanic corrosion between dissimilar metals
- **Easier assembly** - it acts as a lubricant during assembly, Loctite Retaining Compounds are anaerobic meaning they set in the absence of air.

Part No.	Product name	Gap Fill (mm)	Fixture Time	Shear Strength, Steel
60920	Loctite 609 - Retaining Compound - 10ml - General Purpose, Low Viscosity	>0.15	10 min	15 N/mm2 / 2300psi
60950	Loctite 609 - Retaining Compound - 50ml - General Purpose, Low Viscosity	>0.15	10 min	15 N/mm2 / 2300psi
62050	Loctite 620 - Retaining Compound - 50ml - High Strength, High Temp	0.15 - 0.25	60 min	26 N/mm2 / 3800psi
64120	Loctite 641 - Retaining Compound - 10ml - Medium Strength	>0.15	20 min	12 N/mm2 / 1700psi
64150	Loctite 641 - Retaining Compound - 50ml - Medium Strength	>0.15	20 min	12 N/mm2 / 1700psi
66010	Loctite 660 - Retaining Compound - 6ml - High Strength, Large Gap	0.25 - 0.50	15 min	23 N/mm2 / 3335psi
66040L	Loctite 660 - Retaining Compound - 50ml - High Strength, Large Gap	0.25 - 0.50	15 min	23 N/mm2 / 3335psi
68050	Loctite 680 - Retaining Compound - 50ml - High Strength, Low Viscosity	>0.38	4 min	27.6 N/mm2 / 4000psi
7649	Loctite SF 7649 - Activator - 133g Aerosol	Aids with Low Temp curing and passive metals or inert surfaces		