## **RETAINING**

Accepted as a standard method for assembling press and slip parts, LOCTITE® anaerobic retaining compounds fill the 'inner space' between components and cure to form a strong precision assembly. Formulated in a wide variety of viscosities, gap fills, flexibility and strength characteristics, LOCTITE® anaerobic retaining compounds are suitable for a broad range of industrial maintenance applications.



#### **FEATURES & BENEFITS**

Increased Assembly & Product Reliability - Prevents damage caused by press or shrink fits such as wallowing, backlash and fretting corrosion.

Fills all Voids & Ensures 100% Contact - Fills infinite microscopic imperfections that exists on even the most precisely machined surfaces, thereby providing 100% contact between mating parts, ensuring load and stress is distributed evenly over the joint.

**Creates Stronger Industrial Assemblies - Increases** shear strength of mechanical assemblies and is suitable for a wider range of industrial applications from securing a metal locating pin to large diameter shaft bearings.

**Seals Against Corrosion –** Seals the assembly preventing ingress of moisture and other corrosive gases, chemicals and fluids.

Replaces or Augments Mechanical Assemblies -Reduces need for close tolerances, additional securing components and elaborate assembly methods, therefore reducing maintenance cost.

**Controlled Strengths –** Available in high & moderate strengths formulations to suit all applications. Parts can be disassembled using regular processes.

#### **DID YOU KNOW?**

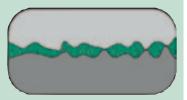
### Interference fits typically have only 20-40% effective contact area!

Typically the contact area is limited to the peaks left behind by machining processes. Micro-movement during dynamic loading can shear these away, allowing the joint to fail. Tightening the machining tolerances to avoid this is a very expensive solution.

A LOCTITE® anaerobic retaining compound assures 100% contact, as well as eliminating "fretting corrosion" within the joint.



LOCTITE® brand Retaining Compounds fill the microscopic peaks and valleys, ensuring maximum adhesion between mating surfaces





# **RETAINING**Securing Cylindrical Assemblies

- » REDUCE THE NEED FOR CLOSE TOLERANCES
- » 100% CONTACT LOAD AND STRESS ARE DISTRIBUTED EVENLY OVER THE JOINT

▶ WHAT SIZE IS THE GAP?			
	Yes (Gaps t	Yes (Gaps to 0.25mm)	
WHAT STRENGTH DO YOU REQUIRE?	Medium	Medium/High	
MAXIMUM TEMPERATURE	150	150°C	
UNIQUE FEATURES	Easy Disassembly	General Purpose	
► HENKEL SOLUTIONS	LOCTITE® 641	LOCTITE® 609	
Colour	Yellow	Green	
Strength	Medium	Medium	
Fixture Time#	30 min	25 min	
Full Strength#	24 hrs	24 hrs	
Gap Fill* / Max Gap Fill	o.o5mm# / o.25mm	o.15mm# / o.25mm	
Compressive Shear Strength® N/mm² (psi)	6.5 (940)	15.8 (2,290)	
Temperature Range	-54°C to +150°C	-54°C to +150°C	
Recommended Primer	7471/7649	7649/7471	
Disassembly Method	Pulley or Press	Press	
Package Size & IDH (Part No.)	10 ml bottle - 469090 (235928) 50 ml bottle - 1496859 (45079) 250 ml bottle - 1496874 (45081)	10 ml bottle - 471311 (30013) 50 ml bottle - 234551 (30015) 250 ml bottle - 234549 (30014)	
# Steel pin & collar, cured for 24 hours @ 22°C.  * Steel pin & collar cured for 2 hours @ 121°C. For further information refer to product Technical data Sheet.	A controlled strength retaining compound, ideal for cylindrical parts that require disassembly; e.g. retention of bearings onto shafts and into housings.	Recommended as a general purpose, low viscosity retaining compound. Use to bond rotors to shafts, secure bushings and sleeves, and augment press fits. Compliant to Mil-R-46082B ASTM D5363.	

