Loctite Cross-Reference & Equivalents Chart

Anaerobic threadlockers, thread sealants, gasket makers, retaining compounds, activators & primers

A Loctite grade is defined by its function (threadlock, thread sealant, gasket, retainer, activator, primer), its strength (low removes with hand tools, medium with hand tools plus heat, high needs heat above 250 °C) and its viscosity (thin wicks into assembled threads, thick fills large gaps). Two Loctite grades with the same three attributes are functionally interchangeable, and so is a competitor product that matches them. The chart lists the grades cballast is most often asked to source, alongside the direct competitor equivalent from Permatex, Weicon, Threebond and Krylex — each of which is qualified against the same substrate and thread standard.

Loctite	Function	Strength	Viscosity mPa·s	Colour	Generic / competitor equivalent
222	Threadlocker	Low	900	Purple	Permatex 24200, Weicon AN 302-22
242	Threadlocker	Medium	1250	Blue	Permatex 24240, Threebond 1401B, Krylex
243	Threadlocker	Medium	2000	Blue	Permatex 27200, Weicon AN 302-43
262	Threadlocker	High	3500	Red	Permatex 27100, Krylex KL62
270	Threadlocker	High	400	Green	Permatex 27400, Weicon AN 302-70
271	Threadlocker	High	500	Red	Permatex 27200, Threebond 1305, Krylex KL71
272	Threadlocker (HT)	High	1500	Red	Permatex 27272 (up to 232°C)
277	Threadlocker (HD)	Very high	4000	Red	Permatex 27700, for M20 and larger
290	Wicking / repair	Medium	12	Green	Permatex 29000, Weicon AN 305-16 — penetrates assembled threads
510	Gasket maker	n/a	400000	Pink	Permatex 51813 (Right Stuff), Threebond 1215
515	Gasket maker	n/a	500000	Purple	Permatex 51817, flexible flanges
518	Gasket maker	n/a	450000	Red	Permatex 51813, Threebond 1216B — rigid
542	Thread sealant	n/a	3500	Brown	Permatex 54540, Weicon AN 306-42 — hydraulic / pneumatic threads to R3/8
545	Thread sealant	n/a	30000	Brown	Permatex 54540 (paste), Threebond 1305 —
567	Thread sealant	n/a	110000	White	Permatex 56521, Weicon AN 306-72 — up to NPT 3, stainless-safe
577	Thread sealant	n/a	85000	Yellow	Permatex 55654 (No More Leaks), Threebond
620	Retaining compound	High (HT)	8500	Green	Permatex 68050, up to 232 °C, cylindrical fits
638	Retaining compound	High	2500	Green	Permatex 68050 (Green), Threebond 1373 —
641	Retaining compound	Medium	600	Yellow	Permatex 64000 — press-fits requiring dismantling
648	Retaining compound	High	500	Green	Permatex 64300, Weicon AN 302-38
5910	Silicone gasket	n/a	(paste)	Black	Permatex 81158 (Black RTV) — flexible flanges up to 300°C
SF7649	Activator (cure)	n/a	(spray)	Amber	Permatex 82063 Anaerobic Activator — for
SF7800	Zinc primer	n/a	(spray)	Grey	Permatex 82073 Cold Galv Compound — bare-steel corrosion primer
MR5923	Aviation gasket	n/a	brush	Brown	Permatex Aviation Form-A-Gasket 3D, Weicon Flex 310 — non-hardening

How to substitute

- Match the function first (threadlock vs sealant vs gasket vs retainer). A retainer is not a threadlocker — the strength profile and cure kinetics differ.
- Match the strength class (low / medium / high / very high). The removal torque, not just the assembly torque, drives which class the assembly can tolerate.
- Match the viscosity band. Thin (< 100 mPa·s) wicks into assembled threads; medium (1 000 – 5 000 mPa·s) is applied before assembly; thick (> 100 000 mPa·s) fills large gaps or works as a formed-in-place gasket.
- Check the temperature range. Standard grades are rated to 150 °C, HT grades (like 272, 620) to 230 °C and silicone gaskets to 300 °C. If the assembly runs hot, an equivalent has to match the temperature class.
- Check the substrate. Inactive metals (stainless, zinc-plated, chromated) need an activator (7471 / 7649) or a primer or the anaerobic cure will not initiate at ambient temperature.

Reference compiled by cBallast from Henkel Loctite technical data sheets (current editions), Permatex application data, Weicon anaerobic catalogue, Threebond bulletin and Krylex data sheets. Equivalents are functionally comparable but not always identical in cure profile or temperature limit — validate against the maker's TDS before substituting on production hardware. Loctite is a registered trademark of Henkel; all trademarks are the property of their respective owners.

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