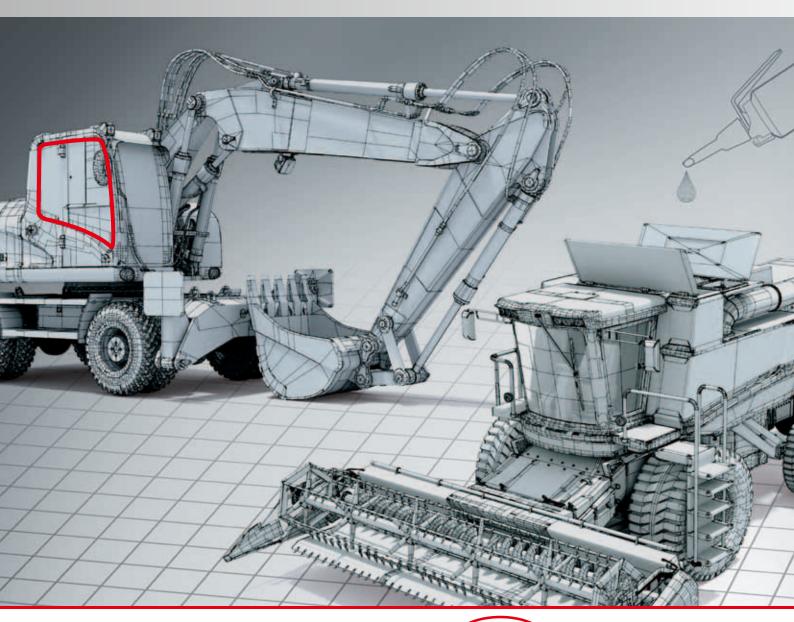
LOCTITE BONDERITE TEROSON

Agricultural and Construction MachinerySolutions Guide



Henkel Excellence is our Passion

Best-in-Class Technical Support

Our professional engineering support empowers our customers to improve their quality & efficiency.

Design Partnership

Our large experienced team of engineers provide documented design & application support.

Global Capabilities

We are the global technology leader with extensive network to support customers' value chain.

Innovative & Sustainable Solutions

We enable customers' innovation to meet fast design changes & developments with green solutions.

Cost Saving & Reliability

Our superior adhesives & equipment improve productivity, durability & reduce overall cost.





Achieving more with less

Our commitment to leadership in sustainability is deeply embedded in our values. With our revised Sustainability Strategy for 2030, we are building on our strong track record. At the same time, we are aiming to address one of the central future challenges: to decouple growth from resource consumption. At the heart of this strategy is therefore the simple, yet challenging, ambition: to achieve more with less. It aims to create more value for our customers, consumers, communities and the company alike, while simultaneously reducing the environmental footprint.

Dow Jones
Sustainability Indices
In Collaboration with RobecoSAM (







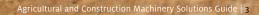












We are the most trusted provider of adhesives, sealants and functional coatings assembling the world's largest agricultural and construction machinery manufacturers.



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Machinery

Tractor Loader Excavator

Combine Harvester

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Engine Cabin

Axle-Transmission-Gear Box Hydraulic Cylinder

Fuel Tank

Window Glazing (DGX)
Instant Bonding
Metal Bonding
Anti-Seize
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Noise, Vibration and Harshness (NVH) Functional Coatings

INTRODUCTION



For decades, agricultural and construction machinery manufacturers have used Henkel adhesive, sealant and functional coatings technologies to improve end-user product performance, reduce production costs, and create more efficient manufacturing processes. Their superior performance and wide reaching benefits can be successfully translated into the Agricultural and Construction Machinery Industry.

This guide provides design, manufacturing and quality engineers with the knowledge to properly qualify Henkel adhesive, sealant and functional coatings technologies for Agricultural and Construction Machinery applications.

► Machinery & Part

- Machinery
 - Tractor
 - Loader

- Excavator
- · Combine Harvester

- > Part
 - Cabin
 - Engine
 - Axle Transmission Gearbox
- Hydraulic Cylinder
- Fuel Tank

► Henkel Applications & Solutions

> Threadlocking

Prevent fastener loosening and seizure

> Thread Sealing

Prevent leaks – air, hydraulic

> Retaining

Prevent backlash - keyway wallow, wheel bearings, wear, corrosion

> Flange Sealing (Anaerobic)

Seal close fitting joints between rigid metal faces and flanges

> Flange Sealing (Silicone)

Retain flexibility and oil resistance for longer gasket life

> Seam Sealing

Seal against polyurethane, rubber, modified silicone polymer or acrylic dispersions

> Anti-Spatter (Ceramishield)

Prevent spatter adhesion on welding equipment, jigs and surfaces

> Window Glazing (DGX)

Secure windows to the metal frames

> Instant Bonding

Bond dissimilar parts quickly and easily

> Metal Bonding

Provide tough, long-lasting bonds to metal surfaces

> Anti-Seize

Protect metal parts from corrosion, galling and seizure

> Noise, Vibration and Harshness (NVH)

Reduce vibration, insulate and absorb sound

> Functional Coatings

Include coatings, surface treatment and cleaners





TRACTOR



	LOCATIONS	BENEFITS		LOCATIONS	BENEFITS
SEAM SEALING	1 Cabin	High temperature resistanceGood durabilityDiversified cure condition	METAL BONDING	1 Cabin	High crash resistanceHigh bonding strengthGood durability
WINDOW GLAZING (DGX)	1 Cabin	High position tackFast curePrimerless	PLASTIC BONDING	1 Cabin	Instant bondingTough bondingEasy application
NOISE, VIBRATION AND HARSHNESS (NVH)	Cabin (sound package)Engine hood (acoustic treatment)	 Total solution to reduce exterior noise / cabin noise Full engineering service High performance acoustic material 	ANTI-SPATTER (CERAMISHIELD)	1 Cabin	Less down timeEasy applicationAutomatic production
THREAD SEALING	CabinEngineTransmission	Good oil resistanceHigh temperature resistanceVarious viscosity	ANTI-SEIZE	4 Engine5 Transmission	High lubricityHigh temperature resistanceGood chemical resistance
THREADLOCKING	CabinEngineTransmissionVarious mounting assembly	 Controllable strength Applicable on inactive surface High temperature resistance 	RETAINING	4 Engine5 Transmission	High strengthGood oil resistanceHigh temperature resistance
FUNCTIONAL COATINGS	 Thin sheet & structural & component part Whole metal surface 	 Environment friendly Good performance with painting Simple processing and control 	FLANGE SEALING	4 Engine5 Transmission	 Good oil tolerance High flexibility Good blow out resistance

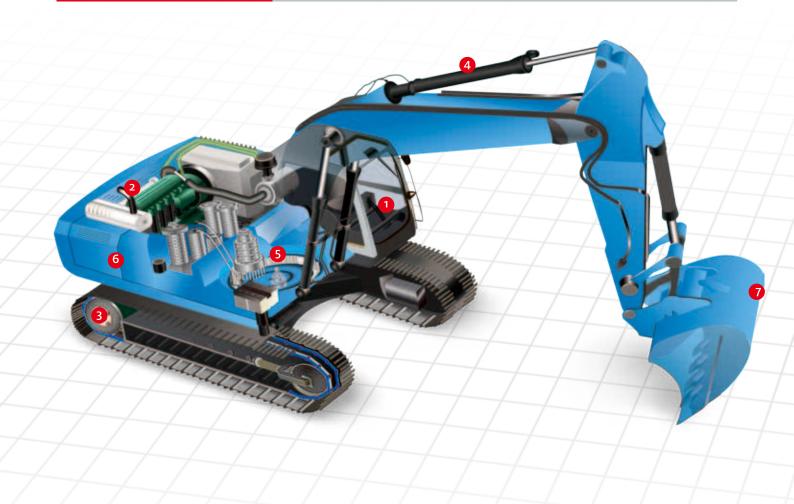
LOADER







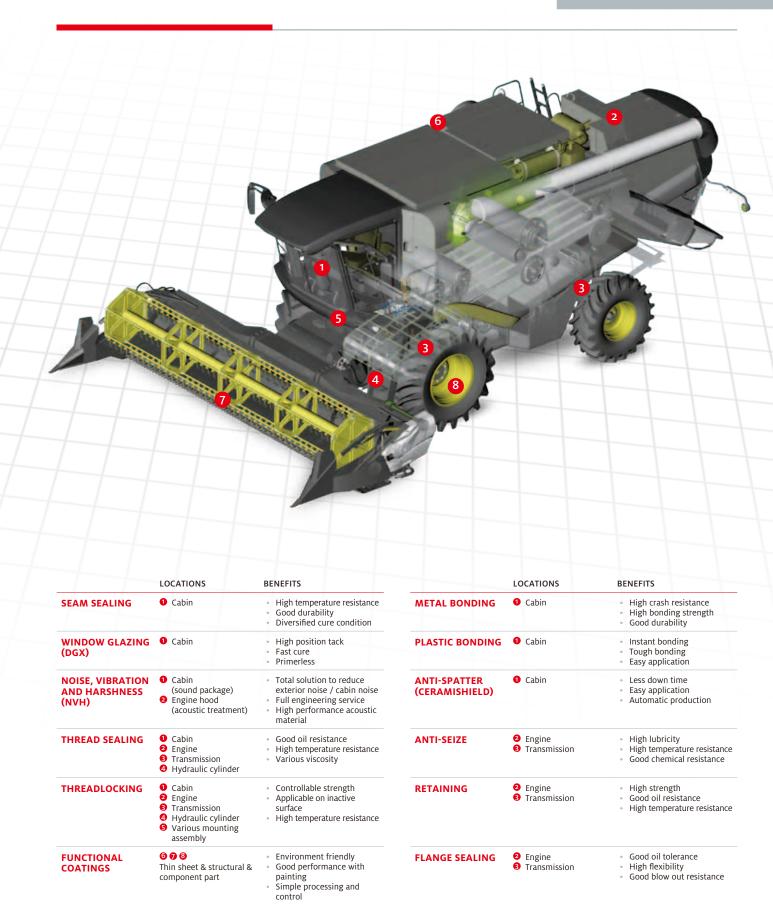
EXCAVATOR



	LOCATIONS	BENEFITS		LOCATIONS	BENEFITS
SEAM SEALING	1 Cabin	High temperature resistanceGood durabilityDiversified cure condition	METAL BONDING	1 Cabin	High crash resistanceHigh bonding strengthGood durability
WINDOW GLAZING (DGX)	1 Cabin	High position tackFast curePrimerless	PLASTIC BONDING	1 Cabin	Instant bondingTough bondingEasy application
NOISE, VIBRATION AND HARSHNESS (NVH)	Cabin (sound package) Engine hood (acoustic treatment)	 Total solution to reduce exterior noise / cabin noise Full engineering service High performance acoustic material 	ANTI-SPATTER (CERAMISHIELD)	• Cabin	Less down timeEasy applicationAutomatic production
THREAD SEALING	CabinEngineFinal driveHydraulic cylinder	Good oil resistanceHigh temperature resistanceVarious viscosity	ANTI-SEIZE	2 Engine3 Final drive	 High lubricity High temperature resistance Good chemical resistance
THREADLOCKING	Cabin Engine Final drive Hydraulic cylinder Slewing bearing Various mounting assembly	Controllable strength Applicable on inactive surface High temperature resistance	RETAINING	EngineFinal drive	 High strength Good oil resistance High temperature resistance
FUNCTIONAL COATINGS	① ① ⑦ Thin sheet & structural & component part	Environment friendly Good performance with painting Simple processing and control	FLANGE SEALING	2 Engine3 Final drive5 Slewing bearing	 Good oil tolerance High flexibility Good blow out resistance

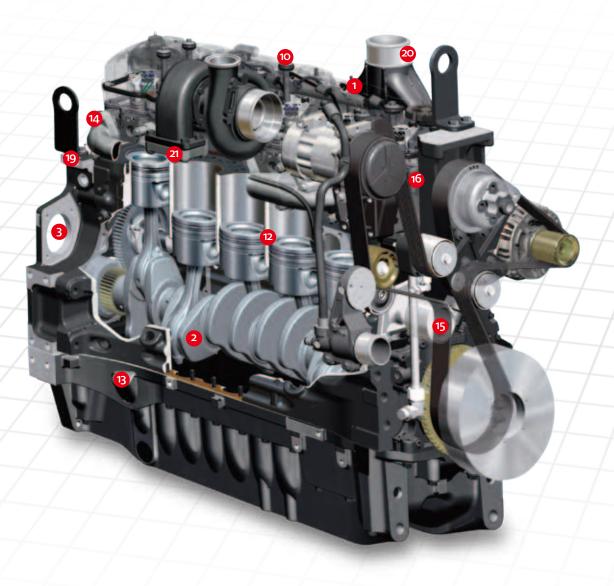
COMBINE HARVESTER







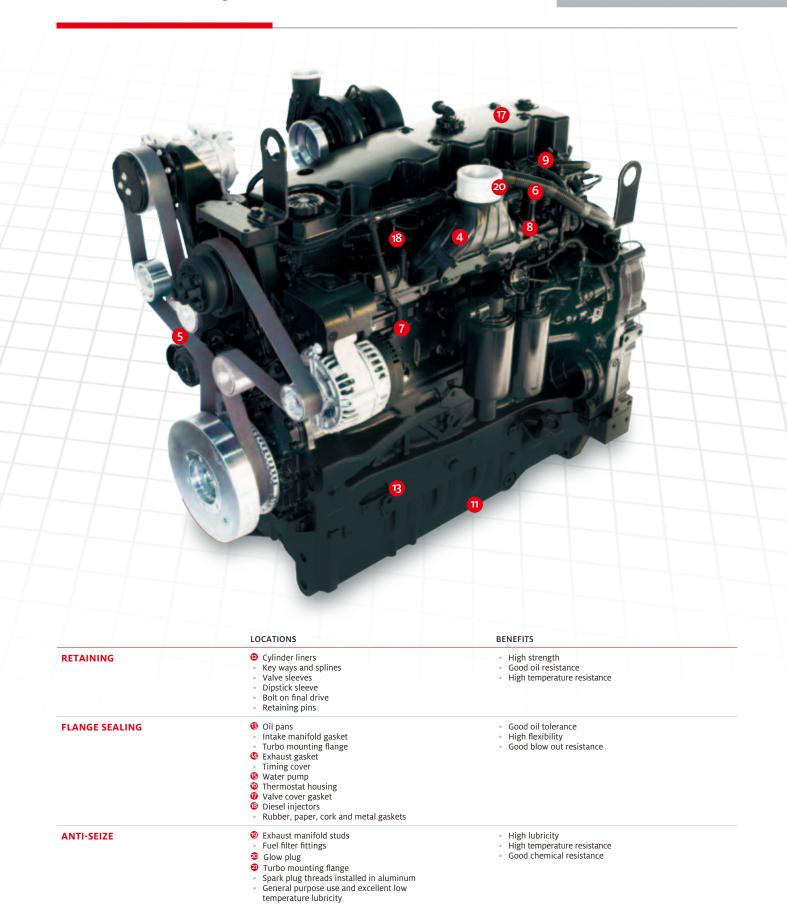
ENGINE / FRONT



LOCATIONS **BENEFITS THREADLOCKING** 1 Intake manifold bolts Controllable strength Connecting rod cap boltsFlywheel bolts Applicable on inactive surfaceHigh temperature resistance Harmonic balance bolts Clutch fan boltDiesel injector boltPulley assembly Cylinder head boltsPre-assembled bolts on alternators and air conditioning belts THREAD SEALING Threaded core plugs Good oil resistance Oil and coolant linesFuel line sealingHydraulic line fittings High temperature resistance Various viscosity Threaded water pump fittings Water pump bolt threads **10 10** Whole metal surface Long antirust timeSimple processing and control **FUNCTIONAL COATINGS** Good cleaner ability

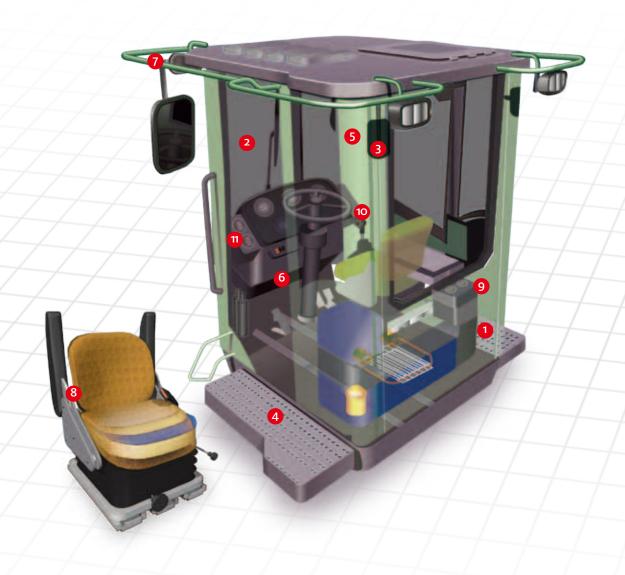
ENGINE / BACK







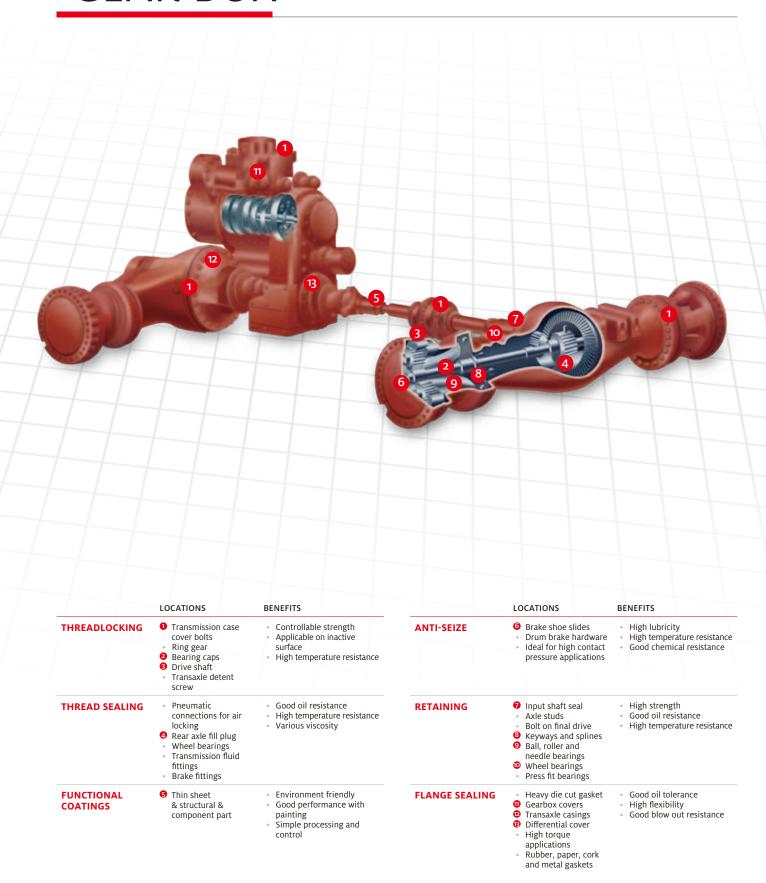
CABIN



	LOCATIONS	BENEFITS		LOCATIONS	BENEFITS
SEAM SEALING	Interior welding Window glass to frame	High temperature resistance Good durability Diversified cure condition	THREADLOCKING	Hood mounting boltsMounting screwsSeat hardware	 Controllable strength Applicable on inactive surface High temperature resistance
WINDOW GLAZING (DGX)	Window Shield	 High position tack Fast cure Primerless	METAL BONDING	 Body panels to frame Hood to cab Light bracket Seat mounting brackets 	High crash resistance High bonding strength Good durability
NOISE, VIBRATION AND HARSHNESS (NVH)	S Cabin (noise and vibration reduction)	Total solution to reduce exterior noise / cabin noise Full engineering service High performance acoustic material	PLASTIC BONDING	© Control knobs / levers / buttons	Instant bondingTough bondingEasy application
FUNCTIONAL COATINGS	 Whole metal surface Thin sheet & structural & component part 	Environment friendly Good performance with painting Simple processing and control	ANTI-SPATTER (CERAMISHIELD)	① Cabin frame welding	Less down time Easy application Automatic production
THREAD SEALING	• Fluid line connectors	Good oil resistanceHigh temperature resistanceVarious viscosity			

AXLE-TRANSMISSION -GEAR BOX





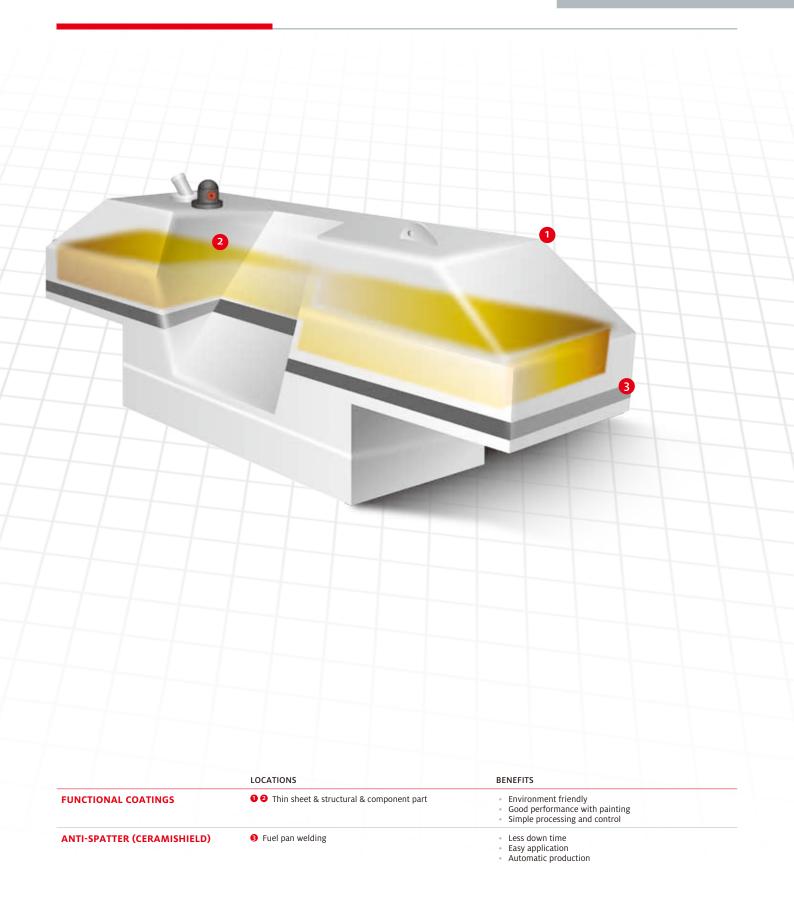


HYDRAULIC CYLINDER



FUEL TANK





► Threadlocking

Prevent fastener loosening and seizure



Product	IDH No.	Package Size	Typical Application	Color	Viscosity (mPa.s)	Average Prevail Torque (N.m)	Average Breakaway Toruqe (N.m)	Curing Speed (Initial Cure / Full Cure)
LOCTITE® 204	243324	20kg	High strength, preapplied adhesive	Pink	75,000 - 100,000	25	25	10min / 72h
LOCTITE® 222	142486 135335 228582	250ml	Low strength, easy disassembly	Purple	1,200 - 5,000	304	6	20min / 24h
LOCTITE® 243	1335868 1329505 1335924 1311322	250ml	Medium strength, good oil tolerance	Blue	1,300 - 3,000	5	26	10min / 24h
LOCTITE® 263	1307416 1330335 1331536	250ml	High strength, primerless	Red	400 - 600	33	33	5min / 24h
LOCTITE® 2701	195725 1246330 229255 229253	250ml	High strength, good oil resistance	Green	700	15	26 - 50	25min / 24h
LOCTITE® 272	195542 161919 1008096	250ml	High temperature resistance	Red	9,500	25	23	6omin / 24h
LOCTITE® 277	232083 88449 1070184 1496860	250ml	High strength, high viscosity	Red	7,000	32	32	6omin / 24h
LOCTITE® 248	462476 525715 902327	19g	Stick, medium strength	Blue	N / A	N / A	13 - 27	5min / 24h
LOCTITE® 268	826035 525717 902328	19g	Stick, high strength	Red	N / A	N / A	25 - 50	5min / 24h

► Thread Sealing

Prevent leaks – air, hydraulic



IDH No.	Package Size	Typical Application	Color	Viscosity (mPa.s)	Pressure Resistance (MPa)
234405 234408 142427	250ml	Medium strength for metal tube	Brown	400 - 800	69
195662 1327769	250ml	Hydraulic / Pneumatic pipe sealing	Purple	9,000 - 20,000	69
88552 449139	250ml	General purpose	White	175,000 - 525,000	21
234458 234453 270921	250ml	High temperature resistance	lvory	280,000 - 800,000	90
209605 234475	250ml	Hydraulic / Pneumatic pipe sealing	Brown	300 - 500	69
88564 281823 234566	250ml	General purpose, coarse thread	Yellow	70,000 - 130,000	69
1147605 230556	250ml	Medium strength, low curing speed	White	200,000 - 500,000	69
463973 943428	19g	Stick, vertical application	White	N / A	69
	234405 234408 142427 195662 1327769 88552 449139 234458 234453 270921 209605 234475 88564 281823 234566	234405 234408 250ml 142427 250ml 195662 250ml 88552 449139 250ml 234458 234453 250ml 270921 209605 234475 250ml 88564 281823 250ml 234566 250ml	234405 234408 234408 2408 250ml Medium strength for metal tube 142427 195662 1327769 250ml Hydraulic / Pneumatic pipe sealing 88552 449139 250ml General purpose 234458 234453 23409 250ml High temperature resistance 209605 234475 250ml Hydraulic / Pneumatic pipe sealing 88564 281823 234566 1147605 230556 250ml Medium strength, low curing speed 463973	234405 234408 250ml Medium strength for metal tube Brown	234405 234408 250ml Medium strength for metal tube Brown 400 - 800 400 - 800 400 - 800 400





Prevent backlash – keyway wallow, wheel bearings, wear, corrosion



Product	IDH No.	Package Size	Typical Application	Color	Max Filling Gaps (mm)	Viscosity (mPa.s)	Sheer Strength (MPa)	Curing Speed (Initial Cure / Full Cure)
LOCTITE® 603	142443 421797 231101	250ml	Small gap, good oil tolerance	Green	0.13	125	26	10min / 24h
LOCTITE® 620	142466 135515 231128	250ml	High temperature resistance	Green	0.38	8,500	26	1h / 24h
LOCTITE® 638	1803042 1767237 421798	250ml	High strength	Green	0.26	2,500	31	5min / 24h
LOCTITE® 641	234866 234868	250ml	Medium strength	Yellow	0.2	525 - 1,950	12	20min / 24h
LOCTITE® 660	267328 135527	50ml	Maintenance	Silvery	0.2	250,000 - 1,500,000	23	20min / 24h
LOCTITE® 680	1835196 1800574 232115	250ml	High strength	Green	0.38	1,250	28	10min / 24h
LOCTITE® 648	88585	250ml	High strength	Green	N / A	400 - 600	4,480	15min / 24h
LOCTITE® 2701HV	1923191 1923190	250ml	High strength	Green	N / A	9,500 - 18,000	20	15min / 24h

► Flange Sealing (Anaerobic) Seal close fitting joints between rigid metal faces and flanges



Product	IDH No.	Package Size	Typical Application	Color	Max Filling Gaps (mm)	Viscosity (mPa.s)	Curing Speed (Initial Cure / Full Cure)
LOCTITE® 515	88541 232089 265605	300ml	High flexibility	Dark purple	0.25	275,000 - 950,000	60min / 12h
LOCTITE® 518	235269 135482 88542 88543	300ml	General purpose	Red	0.25	800,000 - 3,750,000	4h / 24h
LOCTITE® 5127	449138	300ml	Good flexibility	Blue	0.25	100,000 - 500,000	4h / 24h
LOCTITE® 574	231561 88561 246628	250ml	Fast curing	Orange	0.25	23,000 - 35,000	15min / 24h
LOCTITE® 510	135325	300ml	Medium strength	Opaque pink	0.25	200,000 - 750,000	2h / 24h
LOCTITE® 5128	1864475	300g	High flexibility	Red	0.25	35,000 - 65,000	3h / 24h
LOCTITE® 5182	329560 88128 250607	850ml	High viscosity	Red	0.5	300,000 - 900,000	1h / 24h
LOCTITE® 5188	1104312 1333494	300ml	Highest flexibility	Red	0.13	14,000 - 32,000	25min / 24h

► Flange Sealing (Silicone) Retain flexibility and oil resistance for longer gasket life



Product	IDH No.	Package Size	Typical Application	Color	Skin Over Time (min.)	Hardness	Elongation (%)	Tensile Strength (N / mm²)
LOCTITE® 587	576854 333949	300ml	Good engine oil resistance	Metallic blue	10 - 15	A26 - 40	≥350	≥1.6
LOCTITE® 598	231571	300ml	Good engine oil resistance	Metallic black	≤25	A26 - 40	≥325	≥1.31
LOCTITE® 5020	295291	300ml	Low viscosity, low odor	Grey	≤60	D25	≥260	≥1.1
LOCTITE® 5699	473152	300ml	Non-corrosive	Grey	≤30	A45 - 75	≥100	≥2.4
LOCTITE® 5900	585104	50ml	Good blow out resistance	Black	7 - 24	A35	≥400	≥1.4
LOCTITE® 5910	652996	300ml	Excellent adhesion to substrate	Black	≤40	A30	≥400	≥1.7
LOCTITE® 5902	576852	20kg	Non-slumping, non-corrosive, low odor, long open time	Black	90 - 300	D45	350	1.9
LOCTITE® 5989B	1769325	388g	Non-slumping, non-corrosive	Black	8 - 20	A35 - 55	≥200	≥1.7
LOCTITE® 5999	649254	300ml	Blow-out resistance, non-corrosive	Grey	≤30	A45-75	≥100	≥2.4

► Seam Sealing

Seal against polyurethane, rubber, modified silicone polymer or acrylic dispersions



Product	IDH No.	Package Size	Color	Hardness Shore A (DIN EN ISO 868)	Curing Speed (mm / 24h)	Tensile Strength (MPa)	Elongation (%)
TEROSON® MS 930	1338879 1338844 1338094	310ml	White, grey, black	30	4	1	250
TEROSON® MS 939	1480678 1480729	310ml	White, grey, black	55	3	3	250
TEROSON® MS 937	1483161 1480762	310ml	White, grey, black	50	4	3	220
TEROSON® MS 935	1459622 1459683	310ml	White, grey, black	50	3	2.8	230
TEROSON® MS 9360	1483608	310ml	Black	50	3	3.5	200
TEROSON® PV 3046	1532726	250kg	Light ivory	N / A	N/A	2.4	180
TEROSON® RB1244 BX-25	813971	310ml	Black	40 - 60	N / A	N / A	N / A
TEROSON® MS 9399	964329	400ml	White, grey, black	60	N / A	2	150
TEROSON® EP-234H	356824	400g	White	N / A	N / A	1.5	>150
LOCTITE® 5016	1748024	310ml	White	N / A	N / A	1	>200

► Anti-Spatter (Ceramishield)

Prevent spatter adhesion on welding equipment, jigs and surfaces

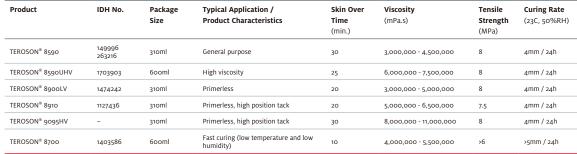


Product	IDH No.	Package Size	Typical Application	Color Before Cure	Color After Cure	Viscosity (mPa.s)	Odor
LOCTITE® SF 7900 Ceramishield	1238883	400ml	Solvent based, manual application	Translucent liquid	White	N / A	Yes
LOCTITE® LW-1 Ceramishield	1611920	0.36kg	Water based, automatic application with ceramishield robot IQ	White emulsion	White	100 - 250	No

PRODUCT SELECTOR CHART

► Window Glazing (DGX)

Secure windows to the metal frames





Bond dissimilar parts quickly and easily

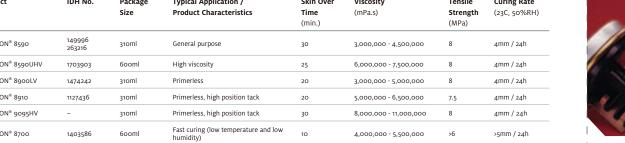
Product	IDH No.	Package Size	Typical Application	Color	Viscosity (mPa.s)	Curing Speed (Initial cure / full cure)	Sheer Strength (MPa)
LOCTITE® 401	142575 135429 195758 233651 135430	20g	General purpose	Transparent	90	15s / 24h	22
LOCTITE® 406	142580 233690 233693 246500 231474	20g	General purpose	Transparent	20	15s / 24h	22
LOCTITE® 414	142585 231476 270809	20g	Plastic bonding	Transparent	110	205 / 24h	22
LOCTITE® 480	142411 852269 230217 135250 135466	20g	Toughening purpose, small gap	Black	200	90s / 24h	26
LOCTITE® 495	270821 195750 231478 88535	20g	General purpose	Transparent	45	20s / 24h	19
LOCTITE® 403	255299 135433 142579	20g	Low bloom application and the good appearance area	Transparent	100	15s / 24h	22

► Metal Bonding

Provide tough, long-lasting bonds to metal surfaces

Product	IDH No.	Package Size	Typical Application / Product Characteristics	Color	Viscosity (mPa.s)	Sheer Strength (MPa)	Curing Speed (Full Cure)	Highest Application Temperature
LOCTITE® EA E-20HP	237107	50ml	2C, general purpose	Off - white	65,000	39	24h at 25°C	177°C
LOCTITE® EA E-120HP	237128 1403943	5oml	2C, general purpose	Amber - beige	41,000 - 61,000	30	12h at 65°C	177°C
LOCTITE® EA E-214HP	234001	300ml	1C, general purpose	Grey	800,000 - 1,500,000	31	4h at 22°C	150°C
TEROSON® EP 5089	1579071	310ml	2C, high crash resistant	Purple	250,000	20	10min at 150°C	>175°C
LOCTITE® H8600	827562	50ml	2C, excellent impact and peel strength	Blue	60,000 - 120,000	23	44min at 22°C	150°C
LOCTITE® H8700	1064166	50ml	2C, good durability	Blue	12,100	15	72min at 22°C	177°C
LOCTITE® 331	1057673 1256398	25ml	1C, general purpose	Light yellow	20,000	20	24h at 25°C (with activator 7387)	177°C
LOCTITE® 330	1689439	1000ml	1C, requires no mixing	Pale Yellow	67,500	30	24h at 25°C (with activator 7387)	121°C







► Anti-Seize

Protect metal parts from corrosion, galling and seizure

IDH No.	Package Size	Typical Application / Product Characteristics	Color	Viscosity (mPa.s)	Curing Speed (Initial Cure / Full Cure)	Operating Temperature Range / °C
135543	1 pound	Heavy-duty application, high temperature and good chemical resistance	Silver	Paste	Non-curing	- 54 ~ +1315
328181	1 pound	High temperature and galling resistance	Copper colored	Coarse particles	Non-curing	- 29 ~ +982
1680620	1 pound	Unsurpassed lubricating quality	Black	Paste	Non-curing	- 29 ~ +400
1114937	1 pound	General purpose	Gray	Paste	Non-curing	- 29 ~ +398
	135543 328181 1680620	135543 1 pound 328181 1 pound 1680620 1 pound	Size Product Characteristics Heavy-duty application, high temperature and good chemical resistance 135543 1 pound High temperature and galling resistance 1680620 1 pound Unsurpassed lubricating quality	Size Product Characteristics Heavy-duty application, high temperature and good chemical resistance Silver High temperature and galling Copper colored resistance In pound Unsurpassed lubricating quality Black	Size Product Characteristics (mPa.s) Heavy-duty application, high temperature and good chemical resistance Silver Paste 328181 1 pound High temperature and galling resistance Copper colored Coarse particles 1680620 1 pound Unsurpassed lubricating quality Black Paste	Size Product Characteristics (mPa.s) (Initial Cure / Full Cure) 135543 1 pound Heavy-duty application, high temperature and good chemical resistance Silver Paste Non-curing 128181 1 pound High temperature and galling resistance Copper colored Coarse particles Non-curing 1680620 1 pound Unsurpassed lubricating quality Black Paste Non-curing



Reduce vibration, insulate and absorb sound



Function	Product	IDH No.	Package Size	Color	Chemistry	Application Area	Application Method	Cure Method	Cure Method	Features
Damping		1947706	1.2T x 200 x 1,000 (mm)	_	Buytl rubber based	Panel	Self adhesion	Needn't	N / A	Constraint layer damping, loss factor 0.25-0.5 Attenuate vibration of cabin panel
	TEROSON® RB D203	1947707	1.2T x 175 x 1,000 (mm)	Black —						
		1947708	1.2T x 160 x 1,000 (mm)							
	TEROSON® WT 123WF	1138705	250kg	Beige	Water based	Panel	Sprayable	Dry at RT	15h at RT	 Free layer damping, loss factor 0.2~0.3 Attenuate vibration of cabin panel, engine hood
	TEROSON® AL 7150	1845761	280kg	Dark grey	Acrylate based water dispersion	Panel	Sprayable	Heat	20min at 165°C	 Free layer damping, loss factor 0.2 Attenuate vibration of cabin panel, engine hood e
		1845762	1,400kg							
Reinforcement	TEROSON® EP 301P	1142266	1.5T x 100 x 300 (mm)	Grey	1К ероху	Panel	Self adhesion	Heat	20min at 140 - 170°C	Reinforcement pad Increase stiffness and resonant frequency of pa Attenuate vibration
	TEROSON® EP 1401	587030	400ml	Grey	2K epoxy	3D structure	Injection	Reaction after mixing	90min at 20°C	2 component reinforcement foam Increase stiffness and resonant frequency of structure Attenuate vibration
	TEROSON® EP 1450	1681386	N / A	Grey	1К ероху	3D structure	Preformed parts	Heat	20min at 165°C	Preformed 1 component reinforcement foam part: Increase stiffness and resonant frequency of structure Attenuate vibration
Sound barrier	TEROSON®	1486551	840 x 513 x 2 (mm)		EVA based	Panel	Self adhesion	Needn't	N / A	High performance sound barrier Fire retardant
		1843528	1,989.5 X 1,775 X 2 (mm)	Dark						
	EV B2020	1843526	2,080 x 760 x 2 (mm)	grey						
		1843525	2,080 X 1,770 X 2 (mm)	_						







► Functional Coatings Include coatings, surface treatment and cleaners



Category	Product	IDH No.	Package Size	Chemistry	Time (min.)	Temperature	Concentration (%)	Features
Coatings	BONDERITE® M-PP series	1197548 619296	30kg	Paint	1-2	Room temperature	10 - 20	Displace E-coating Good cost performance
		1056531	209kg					
Traditional Phosphating of Painting Pretreatment	BONDERITE® M-ZN 958	619121 619123	30kg	Zinc phosphate	2 - 5	43 - 50°C	4 - 7	Best corrosion protection Polycrystalline surface coating
	BONDERITE® M-ZN 35 CR	670344	35kg	Zinc phosphate	2 - 5	Room temperature	4 - 7	 Heavy coating weight Room temperature
	BONDERITE® M-FE 1070	848805	25kg	Iron phosphate	1 - 5	43 - 66°C	4 - 7	 Degreasing & phosphating 2 in 1 Control easily
	BONDERITE® M-FE 2557L	697722	30kg	Iron phosphate	1 - 5	Room temperature	4 - 7	 Degreasing & phosphating 2 in 1 Room Temperature
New Generation Coating of Painting Pretreatment	BONDERITE® M-NT NT-1	1076335	25kg	Phosphate free	1 - 5	Room temperature	2 - 7	Environment friendly Control easily
	BONDERITE® M-NT 20120	1830411	25kg	Phosphate free	1 - 5	Room temperature	1 - 3	Good corrosion protection Control easily
	BONDERITE® TT Series	1268453 1268456 1711581 1711582	25kg	Phosphate free	1 - 5	Room temperature	1-3	Environment friendly Good performance with E-coat



Category	Product	IDH No.	Package Size	Туре	Application	Substrate Compatibility	Concentration (%)	Features	
Cleaner & Antirust	BONDERITE® C-NE N	1618892	25kg	Neutral cleaner	Derust	Ferrous only	2 - 10	Neutral No damage to workpiece	
	BONDERITE® S-FN 6748	619028	25kg	Neutral cleaner	Antirust	Ferrous only	0.1 - 0.3	Temporary antirust	
	BONDERITE® C-NE 5088	619006	25kg	Neutral cleaner	Cleaning	All	1 - 3	Clean & antirust 2 in 1 Good cleaning performance	
	BONDERITE® C-NE 750	619005	25kg	Neutral cleaner	Antirust	All	1 - 3	Clean & antirust 2 in 1 Good antirust performance	
	BONDERITE® C-NE 6771	619367	25kg	Neutral cleaner	Antirust	All	4 - 10	Clean & antirust 2 in 1Best antirust performance	
	BONDERITE® C-AK 930	1470307	227kg	Alkaline stripper	Stripper	Ferrous only	10 - 100	 Alkaline stripper for remanufacturing 	
	BONDERITE® C-AK RM 21	1924246	25kg	Alkaline cleaner	Cleaning & rust removing	Ferrous only	15 - 100	 Alkaline cleaner & deruster for remanufacturing 	
	BONDERITE® C-AK 1523	619051	30kg	Alkaline	Cleaning	Carraine and	1 - 5	Dest dessine performer	
		619052	25kg	cleaner		Ferrous only		Best cleaning performance	
	BONDERITE® C-AK 1022	1586488	30kg	Alkaline cleaner	Classian	Carraine and		Environment friendly Good cleaning performance	
		1628343	25kg		Cleaning	Ferrous only	1 - 5		

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Henkel products are designed to meet the specifications and testing standards of a variety of agencies. Because such standards change or may be modified, no warranty is given regarding such compliance. The information provided may be used as a quick reference tool to aid in design or application. For up-to-the-minute information on agency approvals, or to inquire about additional agency approvals, please contact Henkel Product Management team or local Technical Support team.

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