QUALITY PERFORMS.



Innovative Solutions for High Performance Lubricants

Additin® RC 9xxx Lubricant Additive Packages for Industrial Applications



QUALITY WORKS.



LANXESS INDUSTRIAL ADDITIVE PACKAGES VALUE PROPOSITION

Why Additin® additive packages?

Specialized market pioneer with proven history

Cutting edge know-how with best-in-class solutions

In-depth understanding of OEM needs

Top industry experts with deep knowledge of market trends

In-house testing capabilities and expertise

Bosch Rexroth, Parker Denison, Eaton Vickers test rigs

Excellent additives technology

Back-ward integrated into all key additive components

- We offer highly efficient packages for:
 - Hydraulic, Turbine and Compressor fluids
 - Industrial gear oils
 - Metalworking fluids and Slideway oils
 - Greases
- Development and research centers on three continents in Germany, USA and China
- In-house resources, technology and expertise to get all major OEM approvals and to offer read-across approvals to our customers
- Our experts are very well networked within OEM and specifications issuing community, directly impacting development of these standards for the industry
- We offer tailor made formulations for specific applications and operating conditions

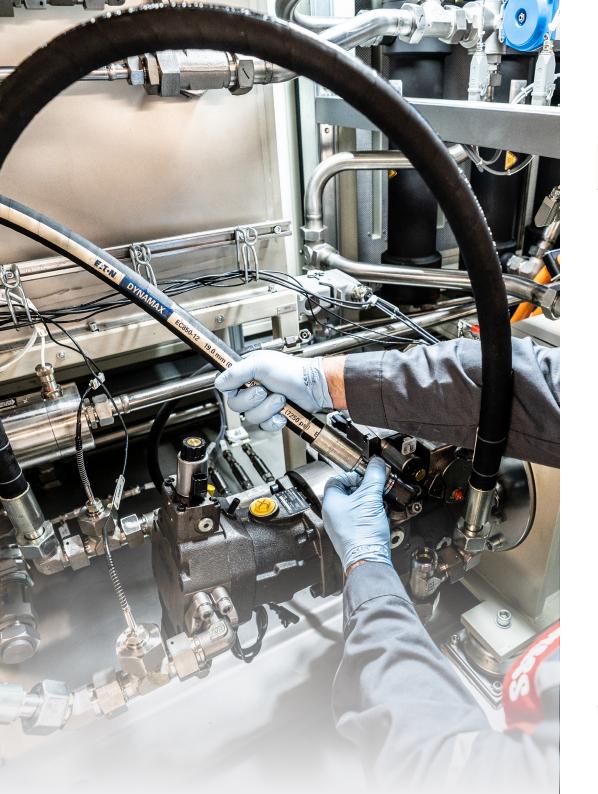
LANXESS GLOBAL FOOTPRINT FOR ADDITIVE PACKAGES







- Both manufacturing sites are ISO 9001 and ISO 14001 certified
- Industry experts in Additive Packages Technology in all research centers



HYDRAULIC PACKAGES



Product	Technology	Description
Additin® RC 9200N	Premium OEM Level Ash Containing (Zinc)	 Bosch Rexroth RDE 90235 approved Parker Denison HF-0 approved Fullfills Eaton E-FDGN-TB002-E incl. Vickers 35VQ25A Pump test
Additin® RC 9207	Premium Antiwear Level Ash Containing (Zinc)	DIN 51524 HLPISO 11158 HMASTM-D 6158 HM
Additin® RC 9217	Specialty Level Ash Containing (Zinc)	DIN 51524 HLP-DTailor made products to special customer needs
Additin® RC 9300	Premium OEM Level Ashless (metal free)	 Bosch Rexroth RDE 90235 approved Parker Denison HF-0 approved Fullfills Eaton E-FDGN-TB002-E incl. Vickers 35VQ25A Pump test
Additin® RC 9305	Premium Antiwear Level Ashless (metal free)	DIN 51524 HLPISO 11158 HMASTM-D 6158 HM
Additin® RC 9317 (M93.005)	Specialty Level Ashless (metal free)	DIN 51524 HLP-DTailor made products to special customer needs
Additin® RC 9330	Food Grade Ashless (metal free)	Kosher & Halal certifiedRegistered on NSF white book list (NSF HX-1)
Additin® M 93.001	Bio Hydraulic Ashless (metal free)	ISO 15380LUSC listed according to EU Ecolabel

TURBINE-, GEAR-, COMPRESSOR-AND SLIDEWAY OILS

Product	Application	Description
Additin [®] RC 9321 D	Turbine Oils Ashless (metal free)	 DIN 51515, ISO 8068, BS489 Fullfills premium OEM requirements (e.g. Siemens, Alstom, GE, Westinghous, Solar)
	Compressor Oils Ashless (metal free)	Recommended for compressor fluidsDIN 51506
Additin® M 93.004	Compressor Oils Ashless (metal free)	Recommended for compressor fluidsDIN 51506
Additin® RC 9420 (M94.005)	EP/AW-Gear Oils Ashless (metal free)	 DIN 51517 CLP, ISO 12925 Fives CM-P-50, US Steel 222 – 224, AGMA 250.04 EP-Gear
Additin® RC 9330	Food Grade Gear Oils Ashless (metal free)	Kosher & Halal certifiedRegistered on NSF white book list (NSF HX-1)
Additin® RC 9410	Gear, Slideway, Rock drill oils and Metalworking fluids	 DIN 51517 CLP, ISO 12925 Fives CM-P-50, US Steel 222 – 224, AGMA 250.04 EP-Gear Suitable for formulating multipurpose MWF and rock drill oils



METALWORKING AND GREASE

Product	Application	Description
Additin® RC 9701	Metalworking	■ Grinding of cemented carbide
Additin® RC 9720	Metalworking	 Multipurpose package for cutting and drawing operations
Additin® M 97.001	Metalworking	Package for specific OEM metalworking formulations
Additin® M 97.003	Metalworking	Metalworking and Slideway Oil package
Additin® RC 9502	Grease	■ Light colored fully formulated grease package (EP, AW, CI, AO)
Additin® RC 9505	Grease	■ Cost effective grease package for Li-soap and Li-complex greases
Additin® RC 9506 (M95.004)	Grease	 Grease package based on high pressure sulfurized isobutene (chlorine free production procedure)

ROBUST WORLDWIDE MANUFACTURING CAPABILITIES

- Worldwide identical recipes for global formulations
- Tailor made regional solutions
- Extensive manufacturing capabilities available globally
- Key manufacturing facility in Germany, Mannheim is being expanded with additional filling stations and tank farm coming online

- Global warehousing network
- Security and reliability: all critical components available in-house
- Additive Packages production since mid 1970s





EXCELLENT R&D TESTING CAPABILITIES FOR INNOVATION



Modern test rigs and realistic testing equipment

- Bosch Rexroth RFT-APU-CL test rig (OEM approved)
- Parker Denison T6H20C test rig (OEM approved)
- Eaton Vickers V104C test rig (ASTM and ISO ready)
- FAG FE-8 bearing tester
- Flender Foam test
- FZG gear tester
- Timken test rig



Precision tools and lab scale equipment

- SRV-4 test rig for friction measurement
- MPR tester for micropitting simulation
- Microtap tapping torque machine
- Corrosion testing cabinets
- 3D optical profilometer
- Four ball tester (4x)
- Brugger tester
- ...

=> over 200 top modern lubricant test methods available for development, approval testing and customer support







Customers in the USA are kindly requested to refer to:

LANXESS Corporation

Lubricant Additives Business Unit 2 Armstrong Road Shelton, CT 06484 USA

LANXESS Deutschland GmbH

Lubricant Additives Business Unit Kennedyplatz 1 50569 Köln Germany Tel: +44 161 875 3568

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