

High Performance Seals' H4 Compliant Compounds



The John Deere® H4 (JDM H4) material specification is one of the rubber sealing industry's most popular material requirements. The specification was developed and is maintained by Deere & Company.

At its core, H4 delineates specific requirements for rubber compounds used to produce O-Rings in various materials. Depending on the material, it addresses conditions and fluids common to the agricultural industry. For example, it includes requirements for exposure to IRM Reference Oils 901 and 903, antifreeze/water mixtures, fuel, and brake fluid. It also incorporates high and low temperature evaluation using H4-specific test methods. JDM H4 requires rigorous evaluation on O-Rings, whose additional requirements include 1000 hour compression set testing of O-Rings with various cross-sections, as well as air conditioning refrigerant/lubricating oil resistance.

High Performance Seals' H4 compliant compounds are fully tested against all elements of the JDM H4 specification, however they have not been independently certified by Deere & Company. Visit www.highperformanceseals.com/jdmh4 for our latest information.

H4 COMPLIANT COMPOUNDS

John Deere Designation	ASTM Type/Class	Description	High Performance Seals Compound #
JDM H4A	BG	70 durometer nitrile	N-7011
JDM H4B	BG	90 durometer nitrile	N-9037
JDM H4C	CH	75 durometer nitrile, peroxide cured	N-7504
JDM H4D	CH	90 durometer nitrile, peroxide cured	N-9022
JDM H4F	CH	75 durometer HNBR, also meets H4C	N-7505
JDM H4G	CH	90 durometer HNBR, also meets H4D	N-9039
JDM H4J	GE	under development	TBD
JDM H4N	BA	under development	TBD
JDM H4P	HK	75 durometer Viton™	F-7029
JDM H4R	HK	90 durometer Viton™	F-9010

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Why Industry Leaders Rely on High Performance Seals

THE HIGHEST STANDARDS

There's no room for compromise when it comes to fuel sealing requirements. High Performance Seals meets and exceeds industry standards, and even when standards are voluntary, we hold ourselves to the highest demands.

A TRUSTED LEADER IN INDUSTRY AND AGRICULTURE

For decades High Performance Seals has been an industry forerunner in the industrial and agricultural marketplace, serving the needs of equipment manufacturers where O-Rings, seals and custom rubber products are crucial.

WE'VE GOT WHAT YOU NEED

We source and stock the widest selection of seals from the finest manufacturers around the world. Our vendors are renowned for their engineering and quality programs and we have excellent, long term relationships with them. Even in periods of short supply, we can deliver. We can customize any seal precisely to your specifications.

EXTENSIVE VALUE ADDED SERVICES

We provide JIT/Kanban programs, pre-production and kitting, special marking and packaging options and much more.

FRIENDLY CUSTOMER SERVICE AND EXPERT ON-PREMISE SUPPORT

You're in the best circles with our customer service team. If you need expertise in any area, we've got it, including materials, design, prototyping, testing and more.



sales@highperformanceseals.com • www.highperformanceseals.com

SEATTLE

3902 W. Valley Hwy N., Suite 200
Auburn, WA 98001
253.218.0123 PHONE
877.796.0123 TOLL FREE
253.218.0121 FAX

MINNEAPOLIS

12121 Nicollet Avenue S.
Burnsville, MN 55337
952.835.1700 PHONE
866.783.8883 TOLL FREE
952.835.1701 FAX

CHICAGO

2700 S. River Road, Suite 116
Des Plaines, IL 60018
847.675.1444 PHONE
800.423.9272 TOLL FREE
847.675.8889 FAX

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