

Zetpol® 4300

Acrylonitrile Butadiene Rubber

Zeon Corporation

Message:

Hydrogenated NBR (HNBR) features high strength as well as resistance to heat, sour gasoline, and ozone. The low-temperature resistance grade provides outstanding physical properties across a wide range of temperatures, from -40 to 150°C. In terms of fuel-related applications, compared to rubber containing fluorine, Zetpol exhibits surpassed cost performance, while at the same time complying with the specific requirements of those applications. It also offers superior resistance to various lubricating oil additives. The use of Zetpol enables the manufacture of rubber parts including seals, hoses, and gaskets with excellent functionality at high temperatures, as it facilitates the design of high modulus compounds and maintains significant strength at high temperatures. Zetpol is also the ideal choice for oil drilling applications, because of its resistance capability to steam and acid, as well as crude oil and natural gas. In addition, Zetpol works well if applied to industrial equipment, since it readily adheres to various types of metal and exhibits excellent abrasion and chemical resistance. Furthermore, for various belts, such as synchronous belts and V-belts, Zetpol's premier dynamic characteristics, high strength, ozone resistance, and heat resistance contribute significantly to improving durability.

Characteristics and applications

Improved low temperature TR10 of -37°C providing good heat and oil resistance. Very good for arctic oil and gas drilling applications as well as automotive uses. Suitable for peroxide curing.

General Information	
Features	Acid Resistant
	Gasoline Resistance
	Good Abrasion Resistance
	Good Chemical Resistance
	High Heat Resistance
	High Strength
	Low Temperature Resistant
	Oil Resistant
	Ozone Resistant
	Steam Resistant
Uses	Automotive Applications
	Oil/Gas Applications

Physical	Nominal Value	Unit
Specific Gravity	0.978	g/cm ³
Mooney Viscosity	75	MU
Bound Acrylonitrile	19	%
Iodine Value	< 10.0	mg/100 mg

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