



# PCP-2100 Elastomers

COMPOUND			PERFORMANCE		NORMALIZED RELATIVE VALUES (%)		RESISTANCE <small>5:Average 10:Best</small>			
NAME	TYPE	ACN LEVEL	MAXIMUM TEMP. °C	DUROMETER SHORE A	TENSILE	TEAR DIE C	AROMATICS	H <sub>2</sub> S	CO <sub>2</sub>	SAND
G202	NBR	MEDIUM	100	68	100	100	5	5	5	10
G206	NBR	VERY HIGH	100	75	160	130	10	4	6	6
G301	HNBR	HIGH	150	75	140	100	6	10	8	6

## Elastomer Definitions

### NBR (Nitrile Butadiene Rubber)

Nitrile elastomers are produced by the emulsion copolymerization of butadiene and acrylonitrile (ACN). ACN improves solvent, oil and abrasion resistance in the elastomer. Commonly known as Buna.

### HNBR (Hydrogenated Nitrile Butadiene Rubber)

Hydrogenated nitrile elastomers are produced by hydrogenation of the nitrile copolymer, which removes residual unsaturation in the copolymer and creates an elastomer with superior resistance to temperature and chemical degradation.

## Compound Descriptions

### G202

Use when well fluids consist of petroleum oil ( $\leq 25$  API), higher percentages of sand ( $\leq 5\%$ ) and water cut. Average physical properties.

### G206

Use when well fluids consist of petroleum oil ( $\leq 35$  API) and lower percentages of sand cut (2-3%). High physical properties.

### G301

Use when well fluids consist of petroleum oil ( $\leq 30$  API) along with higher temperatures. Excellent gas permeation and H<sub>2</sub>S resistance (3-5%). Above average physical properties.

## Support

Our experts can assist with all of your operating and maintenance requirements.

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Elastomer



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