



## BLACK MAMBA™

The Black Mamba is a unique combination of elastomeric material with an advanced armored polymeric fabric that is woven for critical applications. This seal combination has the ability to serve as an energizer for a seal assembly or a stand alone seal for critical and demanding applications.



### Purpose:

The Black Mamba's function is to maintain a high axial load on the v-rings to help energize the rings to make contact with the sealing surfaces. This combination makes for a very abrasion resistant seal, tough enough to handle the most severe dynamic applications, even when passing over flow ports under high differential pressure. The Black Mamba will stand up to proppant and sand control applications and is an excellent alternative to bonded seals. This seal is compact and able to provide very high relative energization with little gland space.

### Benefits:

- Temperatures to -75° to 425°F
- Pressure to 20,000 psi
- Able to pass over flow ports at higher pressures than bonded seals
- Low shifting force
- Explosive Decompression resistant
- Tear and abrasion resistant
- Bi-directional
- Compatible with most traditional wellbore fluids
- Can be designed for short gland lengths

### Materials:

#### Elastomer

- FKM (Viton®)
- FEPM (Aflas®)
- NBR (Nitrile)
- XNBR (Carboxilated Nitrile)
- HNBR (Hydrogenated Nitrile Butadiene Rubber)
- EPDM (Ethylene Propylene)

#### Fabric Armor\*

- Cotton
- Cotton/Polyester
- Nylon
- Aramid (Kevlar®)
- Fiberglass
- Aramid/Nomex®/Glass

#### Cloth Type

- A
- C
- R
- K
- P
- X

\*Single or multiple wraps based on application

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Aflas® is a Registered Tradename of Asahi Glass Co. Ltd.