# RUBBER COMPOUND: FKM

| Features | Performance |
|---|---|
| Compression set | Very high |
| Rebound resilience | Medium |
| Resistance to permanent deformation | Medium |
| Tear resistance | Medium |
| Abrasion resistance | Medium |
| Heat aging resistance | Very high |
| UV rays resistance | High |
| Ozon resistance | Very high |
| Springback effect | Medium |
| Glass transition resistance | - 22°C |
| Heat resistance | approx 200°C for continuous use |
| Cold temperature resistance | Low |
| Flame resistance | Very high |
| Adhesion to substrates | Medium |
| Resistance to aliphatic-based fluids | High |
| Resistance to mineral oils and fuels | High |
| Resistance to silicone oils and grease | High |
| Water swell resistance | Medium |
| Resistance to fluids for glycol-based brakes | Low |
| Resistance to gas of ammonia, amines and akali | None |
| Gas impermeability | Very high |
| Electrical resistivity | Medium |
| Temperature range | From -20 to +150 °C |
| Cheapness | Low |

# RUBBER COMPOUND: NBR

| Features | Performance |
|---|---|
| Compression set | High |
| Rebound resilience | High |
| Resistance to permanent deformation | Medium |
| Tear resistance | Medium |
| Abrasion resistance | Medium |
| Heat aging resistance | High |
| UV rays resistance | Medium |
| Ozon resistance | from Low to Medium |
| Springback effect | Medium |
| Glass transition resistance | - 22°C |
| Heat resistance | Medium |
| Cold temperature resistance | from Low to Medium |
| Flame resistance | from Low to Medium |
| Adhesion to substrates | Very high |
| Resistance to aliphatic-based fluids | High |
| Resistance to aromatic-based fluids | Medium |
| Resistance to mineral oils | Medium |
| Resistance to vegetal and animal oils | High |
| Water swell resistance | Medium |
| Gas impermeability | High |
| Electrical resistivity | Medium |
| Temperature range | From -20 to +120 °C |
| Cheapness | High |

# RUBBER COMPOUND: NR

| Features | Performance |
|---|---|
| Compression set | High |
| Rebound resilience | High |
| Resistance to permanent deformation | High |
| Tear resistance | Medium |
| Abrasion resistance | Elevata |
| Heat aging resistance | Medium |
| UV rays resistance | Low |
| Ozon resistance | Medium |
| Springback effect | High |
| Glass transition resistance | - 70°C/-75°C |
| Heat resistance | from Low to Medium |
| Cold temperature resistance | High |
| Flame resistance | Low |
| Adhesion to substrates | Very High |
| Resistance to aliphatic-based fluids | Low |
| Resistance to aromatic-based fluids | Low |
| Resistance to mineral oils | Low |
| Resistance to vegetal and animal oils | Low |
| Water swell resistance | High |
| Gas impermeability | Medium |
| Electrical resistivity | High |
| Temperature range | From -55 to +100 °C |
| Cheapness | High |

# RUBBER COMPOUND: NEOPRENE

| Features | Performance |
|---|---|
| Compression set | High |
| Rebound resilience | High |
| Resistance to permanent deformation | High |
| Tear resistance | High |
| Abrasion resistance | High |
| Heat aging resistance | High |
| UV rays resistance | High |
| Ozon resistance | Medium |
| Springback effect | Medium |
| Glass transition resistance | - 50°C |
| Heat resistance | Medium |
| Cold temperature resistance | Medium |
| Flame resistance | High |
| Adhesion to substrates | Very High |
| Resistance to aliphatic-based fluids | Medium |
| Resistance to aromatic-based fluids | Low |
| Resistance to mineral oils | Medium |
| Resistance to vegetal and animal oils | High |
| Water swell resistance | Medium |
| Gas impermeability | Medium |
| Electrical resistivity | High |
| Temperature range | From -20 to +120 °C |
| Cheapness | Medium |

# RUBBER COMPOUND: SBR

| Features | Performance |
|---|---|
| Compression set | Medium |
| Rebound resilience | Low |
| Resistance to permanent deformation | Very high |
| Tear resistance | Medium |
| Abrasion resistance | High |
| Heat aging resistance | High |
| UV rays resistance | Low |
| Ozon resistance | Low |
| Springback effect | High |
| Glass transition resistance | - 60°C |
| Heat resistance | Medium |
| Cold temperature resistance | Medium |
| Flame resistance | Low |
| Adhesion to substrates | Very high |
| Resistance to aliphatic-based fluids | Low |
| Resistance to aromatic-based fluids | Low |
| Resistance to mineral oils | Medium |
| Resistance to vegetal and animal oils | from Low to Medium |
| Water swell resistance | from Low to Medium |
| Gas impermeability | Medium |
| Electrical resistivity | High |
| Temperature range | From -40 to +100 °C |
| Cheapness | High |

# RUBBER COMPOUND: HNBR

| Features | Performance |
|---|---|
| Compression set | Very high |
| Rebound resilience | High |
| Resistance to permanent deformation | High |
| Tear resistance | Very high |
| Abrasion resistance | High |
| Heat aging resistance | High |
| Ozon resistance | High |
| Heat resistance | High |
| Cold temperature resistance | High |
| Flame resistance | Low |
| Resistance to mineral oils | High |
| Resistance to vegetal and animal oils | High |
| Water swell resistance | High |
| Gas impermeability | High |
| Temperature range | From -40 to +150 °C |
| Cheapness | Low |

# RUBBER COMPOUND: SILICONE

| Features | Performance |
|---|---|
| Resistance to permanent deformation | Low |
| Tear resistance | Low |
| Abrasion resistance | Low |
| Heat aging resistance | High |
| UV rays resistance | High |
| Ozon resistance | High |
| Springback effect | Medium |
| Glass transition resistance | - 120°C |
| Heat resistance | Very high |
| Cold temperature resistance | Very high |
| Flame resistance | High |
| Adhesion to substrates | Low |
| Resistance to aliphatic-based fluids | Low |
| Resistance to aromatic-based fluids | Low |
| Resistance to mineral oils | from Low to Medium |
| Resistance to vegetal and animal oils | Medium |
| Water swell resistance | Medium |
| Gas impermeability | Medium |
| Electrical resistivity | Very high |
| Temperature range | From -90 to +250 °C |
| Toxicity and chemical reactivity | Low |
| Optical transparence | High |
| Cheapness | Medium |

# RUBBER COMPOUND: EPDM

| Features | Performance |
|---|---|
| Compression set | High |
| Rebound resilience | Medium |
| Resistance to permanent deformation | Very high |
| Tear resistance | Medium |
| Abrasion resistance | Very high |
| Heat aging resistance | Very high |
| UV rays resistance | Very high |
| Ozon resistance | Very high |
| Springback effect | Very high |
| Glass transition resistance | - 58°C |
| Heat resistance | High |
| Cold temperature resistance | Medium |
| Flame resistance | Low |
| Adhesion to substrates | Medium |
| Resistance to aliphatic-based fluids | Low |
| Resistance to aromatic-based fluids | Low |
| Resistance to mineral oils | High |
| Resistance to vegetal and animal oils | High |
| Water swell resistance | Very high |
| Gas impermeability | Medium |
| Electrical resistivity | High |
| Temperature range | From -50 to +150 °C |
| Cheapness | Medium |