



**BER-PA**  
Oil & Gas sealing  
solutions



## **BER-PA** EXCELLENCE IN THE GASKET INDUSTRY SINCE 1984

O-rings and sealing systems ideal for applications in extremely hostile environments, both from a chemical and climatic point of view. Compounds and materials capable of resisting exposure to high concentrations of lubricants, steam, gas and hydrocarbons, to the phenomena of RGD (Rapid Gas Decompression) and to the rigid arctic or desert temperatures typical of extractive environments. O-Rings in compound VB90BMED / VB90CMED / VB90TMED / CFLT90MD / GLT98NED supplied by BER-PA S.R.L have been tested according to the requirements of **NORSOK M-710 Edition 3** and **ISO 23936-2 (Rapid gas decompression resistance)** and obtained **PASSED** with the highest possible rating of "0000".



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Compound name	VB9oCMED	VB9oTMED	VB9oBMED	GFLT9oMD	GLT98NED
<b>Description</b>	vinylidene fluoride (VDF) and hexafluoropropylene (HFP). This bisphenolic curable copolymers is the standard type of FKMs showing a good overall performance. Fluorine content is around 66 weight percent.	Terpolymer of vinylidene fluoride (VDF) and hexafluoropropylene (HFP) tetrafluoroethylene (TFE). It is the B type of FKM bisphenolic curable showing a good overall performance. Fluorine content is around 68.5 weight percent which results in better chemical and heat resistance.	Co-polymer of vinylidene fluoride and 2,3,3,3-tetrafluoropropene. It is a type of FKM peroxide curable showing a good overall performance and improved resistance to amines, amine containing automotive fluids, steam and bases, while maintaining the excellent resistance to gasoline typical of fluoroelastomers. Fluorine content is around 62 weight percent.	Copolymer of perfluoromethylvinyl ether, vinylidene fluoride, and tetrafluoroethylene with a cure monomer. It is GFLT type of FKM peroxide curable showing a good overall performance, exhibits significantly improved low temperature flexibility TR10 -24°C, high fluorine content, high chemical resistance, low temperature type. Exhibits significantly improved low temperature flex characteristics compared to standard types of fluoroelastomers. Fluorine content is around 66 weight percent.	Copolymer of perfluoromethylvinyl ether, vinylidene fluoride, and tetrafluoroethylene with a cure site monomer. It is GLT type of FKM peroxide curable showing a good overall performance, exhibits significantly improved low temperature flexibility TR10 -30°C, characteristics compared to standard types of fluoroelastomer. Fluorine content is around 64 weight percent.
<b>Generally resistant to</b>	Chlorinated solvents, mineral acids, aromatic solvents, oxidising fluids, hydrocarbons, oils, gasoline, water up to 100°C, heat, fuels, chemicals, weather, sunlight, oxidation and ozone.	Chlorinated solvents, mineral acids, aromatic solvents, oxidising fluids, hydrocarbons, oils, gasoline, water up to 100°C, heat, fuels, fuels alcohol, alcohols (ethanol-methanol), chemicals, weather, sunlight, oxidation and ozone.	Bases and amines, ATF fluids, steam and hot aqueous fluids, glycols, fluids containing amine additives for oil&gas, automotive fluids containing amines, chlorinated solvents, mineral acids, hydrocarbons, oils, fuels, weather, sunlight, oxidation and ozone.	Chlorinated solvents, mineral acids, organic acids, aromatic solvents, oxidising fluids, hydrocarbons, oils, gasoline, fuel with alcohol, alcohol, water and steam, heat, fuels, chemicals, weather, sunlight, oxidation and ozone, hot aqueous fluids, glycols, fluids containing amine additives for oil&gas.	Chlorinated solvents, mineral acids, organic acids, aromatic solvents, oxidising fluids, hydrocarbons, oils, gasoline, water and steam, heat, fuels, chemicals, weather, sunlight, oxidation and ozone, hot aqueous fluids, glycols, fluids containing amine additives for oil&gas.
<b>From fair to good resistance</b>	Hot aqueous fluids, steam.	Hot aqueous fluids, steam.	Organic acid, methanol, aromatic hydrocarbons, fuel with alcohol, high pH chemicals.	High pH chemicals.	Methanol, fuel with alcohol, high pH chemicals.
<b>Generally attacked by</b>	Ketones, solvents, high pH chemicals and low molecular weight carbonyls.	Ketones, solvents, high pH chemicals and low molecular weight carbonyls.	Ketones, solvents, low molecular weight carbonyls.	Ketones, solvents, low molecular weight carbonyls.	Ketones, solvents, low molecular weight carbonyls.
<b>Application range (static condition)</b>	-30°/+230°C	-25°/+230°C	-25°/+200°C	-35°/+200°C	-40°/+200°C
<b>Dynamic range application</b>	-20°C/+220°C	-15°C/+220°C	-15°C/+180°C	-25°C/+200°C	-30°C/+200°C
<b>Requirements</b>	NORSOK M-710 edition 3 ISO 23936-2 <b>APPROVED</b>	NORSOK M-710 edition 3 ISO 23936-2 <b>APPROVED</b>	NORSOK M-710 edition 3 ISO 23936-2 <b>APPROVED</b>	NORSOK M-710 edition 3 ISO 23936-2 <b>APPROVED</b>	NORSOK M-710 edition 3 ISO 23936-2 <b>APPROVED</b>
<b>Rating</b>	0000 No internal cracks, holes or blisters of any size.	0000 No internal cracks, holes or blisters of any size.	0000 No internal cracks, holes or blisters of any size.	0000 No internal cracks, holes or blisters of any size.	0000 No internal cracks, holes or blisters of any size.