

Fluorocarbon Rubber Compound (DMS-FE-75)

Fluorocarbon elastomer designated as FKM according to ISO 1629 contains high fluorine content i.e. $67\pm 3\%$ (approx.). This rubber compound is stable better over wide temperature range and possesses excellent resistance to weather, oil, and atmospheric agent. They have good resistance to compression set, ozone and swelling (except some polar solvents and low molecular weight organic acids).

Keeping in view of outstanding characteristic of fluorocarbon polymer, DMSRDE has developed the fluorocarbon-based rubber compound known as DMS-FE-75 having hardness between 75 and 83 Shore 'A' and brittleness temperature is -40°C . DMS-FE-75 is the best solution for high temperature application i.e. 200°C (for continuous operation) and 300°C (for intermittent time period). Components developed from DMS-FE-75 rubber compound are being widely used in aero-engine and other hydraulic control system of transport aircrafts, fighter aircrafts, helicopters, etc.