

# Material Properties

## High Performance FKM

### Material code: CV75

CV75 is a proprietary blend of FKM developed and owned by Freudenberg-NOK. It offers superior chemical resistance and heat resistance in comparison to your general purpose FKM materials.

**NOTE** - All testing done on AS568-214 size O-rings

<b>Original Properties</b>	<b>Typical Values</b>
Hardness, Shore A, ASTM D2240	78
Tensile Strength, psi, ASTM D1414	2393
Ultimate Elongation, %, ASTM D1414	171
Specific Gravity, g/cc, ASTM D297	1.86
<b>Temperature Retraction, ASTM D1329</b>	
TR-10, degrees F	-7
<b>Heat Aged, ASTM D573, 168 hrs. at 250°C</b>	
Hardness change, Shore A, ASTM D2240	-3
% Tensile Strength Change, ASTM D1414	-32
% Elongation Change, ASTM D1414	+27
% Weight loss, ASTM D297	
<b>Fluid Immersions, ASTM D471 and ASTM D1414, time, temperatures and fluids as shown</b>	
% Volume change, ASTM D471, MEK, 168 hours at 23°C	+25
% Volume change, ASTM D471, Ethyl Acetate, 168 hrs. at 23°C	+25
% Volume change, ASTM D471, 45% KOH in water, 70 hrs. at 70°C	+0.3
% Volume change, ASTM D471, 70% Nitric Acid in water, 70 hrs. at 70°C	+9.7
% Volume change, ASTM D471, Water, 168 hrs. at 100°C	+1.7
<b>Compression Set, ASTM D395 Method B and ASTM D1414, times and temperatures as noted</b>	
% Permanent Set, 22 hrs. at 200°C	19
% Permanent Set, 70 hrs. at 200°C	42

**Note:** Property values should be interpreted as typical rather than minimum value. All technical information and recommendations are presented in good faith, and based upon laboratory and real-world tests believe to be reliable and practical. However, K.C. Seals, Inc. cannot guarantee the accuracy or completeness of this information, and it is the customers' responsibility to determine product suitability to any given application.

