

KC Seals**MATERIAL SPECIFICATION INFORMATION****COMPOUND: MCM3009****DATE: MAY 2021****SCOPE: 90 DURO HNBR COMPOUND. ESTIMATED SERVICE RANGE OF -28°C TO 162°C.
DESIGNED FOR CRUDE OIL APPLICATIONS WITH H2S LEVELS UP TO 5%.****MATERIAL REQUIREMENTS**

Compound shall be capable of meeting the requirements listed below. All testing is performed per the ASTM specifications listed below unless otherwise noted.
Testing is performed and data recorded from KC Seals in-house lab testing.

PHYSICAL PROPERTIES	ASTM TEST METHOD	REQUIREMENT
ORIGINAL PROPERTIES		
HARDNESS	D2240 SHORE A DUROMETER	92
TENSILE STRENGTH	D412 METHOD A	4100 PSI
ELONGATION	D412 METHOD A	180%
MODULUS AT 100% ELONGATION	D412 METHOD A	1425 PSI
TEAR STRENGTH DIE C	D412 METHOD A	
SPECIFIC GRAVITY		1.23 - 1.29
HEAT AGING (70 HOURS @ 125 °C) D865		
HARDNESS	D2240 SHORE A DUROMETER	+ - 5 PTS
TENSILE STRENGTH	D412 METHOD A	< 20%
ELONGATION	D412 METHOD A	< 20 %
COMPRESSION SET D395 METHOD B		
22 HOURS @ 100°C	D395 METHOD B	< 15%
FLUID IMMERSION /IRM903 OIL D471		
70 HOURS @ 100°C	D412 METHOD A	
HARDNESS	D412 METHOD A	-7 / +3 PTS
TENSILE STRENGTH	D412 METHOD A	<20 %
ELONGATION	D412 METHOD A	<25 %
VOLUME SWELL		0 / +20 %