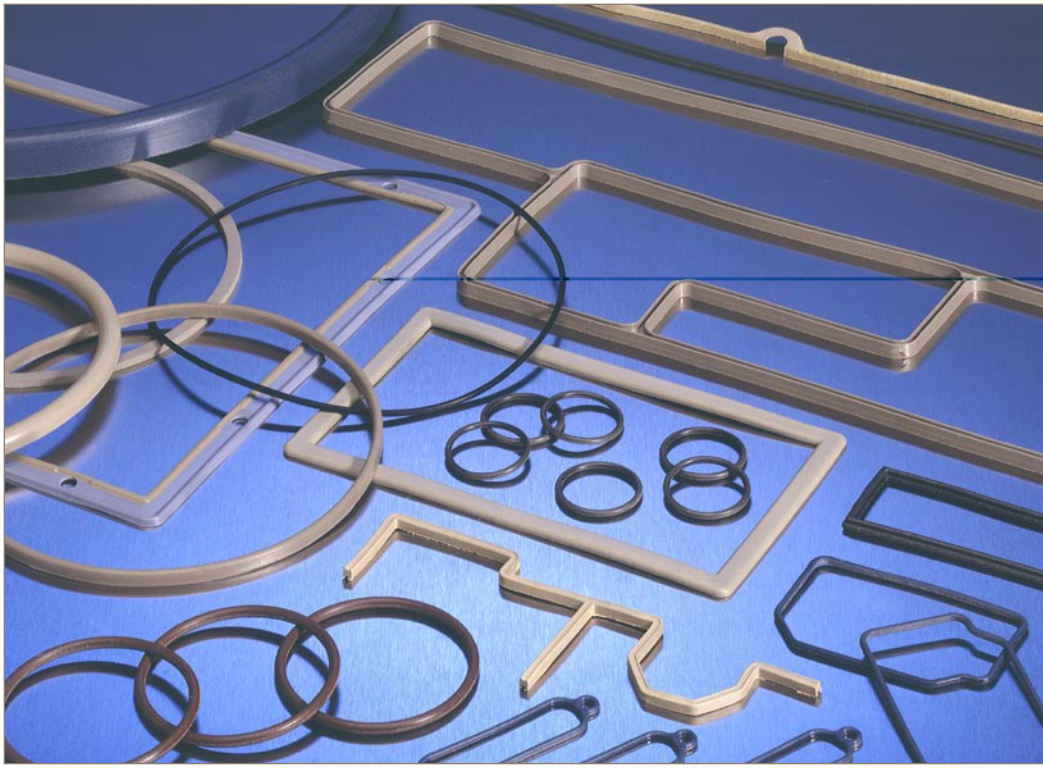
CHO-SEAL® 6307 and 6435

Conductive Elastomer EMI Gasket Materials

Customer Value Proposition:

CHO-SEAL® 6307 (nickel-plated graphite) and 6435 (silver-plated nickel) are moldable, conductive EPDM elastomer EMI gasket materials. CHO-SEAL 6307 and 6435 were developed as replacement products for Chomerics CHO-SEAL E6306 and E6434. These materials offer equivalent excellent EMI shielding and NBC fluid resistance. Applications for these materials include those situations where the fluid resistance properties of an EPDM elastomer are required, in addition to a highly conductive material that demonstrates excellent EMI shielding effectiveness.



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Product Features:

- Moldable conductive elastomer with superior EMI shielding to 105dB (CHO-SEAL 6435 @ 100MHz)
- EPDM based materials offer superior resistance to NBC fluids
- CHO-SEAL 6307 is a nickel-plated graphite filled moldable EPDM
- CHO-SEAL 6435 is a silver-plated nickel filled moldable EPDM
- Available in die-cut sheet stock, O-rings and custom-molded shapes to suit the application

Product Information

Ordering Information

Use the following part number system to order CHO-SEAL gaskets. For custom feature options, part numbers will be assigned by Chomerics.

TABLE 1 - PART NUMBERING SYSTEM

Part Numbering System			
WW - XX – XXXX - YYYY			
10	00	XXXX – assigned by Chomerics	6307
			6435

Legend: NBC – Nuclear, Biological, Chemical
EPDM – elastomer of ethylene propylene diene monomer

TABLE 2 - QUALITY CONFORMANCE TESTS

Property	Method	CHO-SEAL 6307	CHO-SEAL 6435
Conductive Filler	--	Nickel-plated graphite	Silver-plated nickel
Elastomer Binder	--	EPDM	EPDM
Volume Resistivity	MIL-DTL-83528	5.0 ohm-cm (max.)	0.006 ohm-cm (max.)
Hardness	ASTM D2240	75 +/-7 Shore A	80 +/-7 Shore A
Tensile Strength	ASTM D412	200 psi (min.)	200 psi (min.)
Tear Strength	ASTM D624	60 ppi (min.)	75 ppi (min.)
Elongation	ASTM D412	75 % (min.)	200 % (min.)
Specific Gravity	ASTM D792	1.90 +/-.25	3.70 +/-.25

TABLE 3 - QUALIFICATION TESTS

Property	Method	CHO-SEAL 6307	CHO-SEAL 6435
Compression Set	ASTM D395 Method B 70 hrs. @ 100°C	40% (max.)	40% (max.)
Low Temperature Flex TR 10@	ASTM 1329	-45°C	-40°C
Maximum Continuous Use Temperature	--	100°C	100°C
Heat Aging	MIL-DTL-83528 48 HRS. @ 100°C	10.0 ohm-cm (max.)	0.0125 ohm-cm (max.)
Shielding Effectiveness (min.)	MIL-DTL-83528	--	--
100 MHz	--	95 dB	105 dB
500 MHz	--	90 dB	100 dB
2 GHz	--	85 dB	85 dB
10 GHz	--	85 dB	85 dB