

CRETEX HYDRATITE™ INTERNAL SEALING SYSTEM

**Specification for EPDM Rubber: M4AA710A13B13C12EA14Z1Z2Z3
Manufactured in Accordance with ASTM-D3900, D3568, D2000**

<u>PHYSICAL PROPERTIES</u>	<u>SPECIFICATION</u>
Durometer (pts) ASTM D-2240	65+5
Tensile (psi) ASTM D-412	1450 min.
Elongation (%) ASTM D-412	350 min.

SUFFIX A13 ASTM D-573
Heat Aged 70h 70°C

Durometer (pts)	+15
Tensile change (%)	+30
Elongation change (%)	-50 max.

SUFFIX B13 ASTM D-395B
Compression set 22h 70°C

(%) Permanent set	25 max.
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SUFFIX C12 ASTM D-1171

(%) Ozone resistance	85 min.
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SUFFIX Z1

Z1: The material shall be an EPDM polymer where all the ingredients are listed in FDA Title 21 Code of Federal Regulations Section 177.2600 Rubber Articles Intended for Repeated Use with the final material not supporting microbiological growth when used in potable water or sea water or in humid aerobic conditions.

SUFFIX Z2 FLUID AGING D471

Z2: The volume change of the rubber shall not exceed 3% after immersion in fresh or sea water at 100° C for 70 hours.

SUFFIX Z3

Z3: The stress relaxation shall not exceed 12% when tested from the time of 30 minutes to 24 hours in accordance with British Standard Method of testing Vulcanized Rubber Part A42 determination of stress relaxation.

7. The push tabs shall be manufactured from the same manufacturer lot number as the band.
8. All shop and field welds shall be made by certified welders. The welds shall be made with a stick or wire of T-308 alloy as mentioned above in the table.
9. Welding shall be accomplished by using either gas metal arc welding or shielded metal arc welding.
10. All material specifications shall be certified.
11. Shims shall;
 - a. Be manually chamfered.
 - b. All edges deburred.

Physical Requirements

Physical Properties	Type 304	Type 316L	Type AL-6XN
UNS Designation	S30400	S31603	N08367
Tensile Strength (min.)	75,000 psi	70,000 psi	100,000 psi
Yield Strength (min.)	30,000 psi	25,000 psi	45,000 psi
Elongation in 2 in. (min.)	40%	40%	30%
Brinell Hardness (max)	201	217	233
Rockwell B 94	(94)	(96)	
Weld Wire TS	80,000 psi	70,000 psi	110,000 psi