

**PRODUCT PHYSICAL PROPERTIES:**

- **Product: AR-Series [Cebreg System]**
  
- **Product Components:**
  1. Neoprene seal, meeting ASTM, D-3542-82
  2. EPDM seal, meeting ASTM, D-2000
  3. Two-part epoxy adhesive

**Table 1 - Values for the Neoprene Seal**

**Table 2 - Values for the EPDM Seal**

TABLE 1 – Physical Properties of the Neoprene Seal			TABLE 2 – Physical Properties of EPDM Seal		
Property	ASTM Test Method	Requirement	Property	ASTM Test Method	Requirement
Hardness, Type A	D2240 (modified)	55 +/-5	Hardness, Type A	D2240 (modified)	64 +/-5
Tensile strength, min.	D412	2000 psi	durometer		
Elongation at break, min.	D412	250%	Tensile strength, min.	D412, Die C	1700 psi
Oven aging, 70h @ 212° F	D573		Elongation at break,	D412 , Die C	225%
Tensile strength, max.		20% loss	Compression set,	D395	30%
Elongation, max.		20% loss	22hr at 212°F		
Hardness, Type A duro.		0 to +10 pts	Heat aging 70hr @ 212°F:		
Oil swell, ASTM Oil No. 3			Hardness increase max.	D573	
70 hr @ 212 ° F			Durometer points		10
Weight change, max.	D471	45%	Tensile Strength, max loss		15%
Ozone resistance, 20% strain	D1149		Elongation, max		40%
70 hrs aging, D573, 3ppm in air		No cracks	Ozone resistance,	D1149	No cracks

**Table 3 - Values for the Two-Part Epoxy Adhesive**

TABLE 3 – Physical Properties of the High Strength Adhesive	
Property	Requirement
Adhesive type	2-Component thixotropic paste
Tensile strength	4500 psi
Axial compression	8775 psi
Pot life	45 minutes at 68°F
Flash point	> 200°F (both components)
Non-volatile content	100% Reactive
Initial cure @ 70°F	24 hours