

Equipment Checklist

ASTM C 1231 Use of Unbonded Caps for Concrete Cylinders

		P	F	N/A
Apparatus				
1.	Grinding or sawing equipment necessary to produce ends that conform to planeness requirements of ASTM C-39 and C-617.			
2.	Pads shall be $\frac{1}{2} \pm \frac{1}{16}$ in. [13 ± 2 mm] thick and the diameter shall not be more than $\frac{1}{16}$ in. [2 mm] smaller than the inside diameter of the retaining ring.			
3.	Pads shall be made from polychloroprene (neoprene) meeting the requirements of Classification D2000.			
Retainers				
4.	A pair of metal fixtures made from steel and some aluminum alloys are acceptable.			
5.	The height of the retaining ring shall be 1.0 ± 0.1 in. [25 ± 3 mm].			
6.	The inside diameter of the retaining ring shall not be less than 102 % or greater than 107 % of the diameter of the cylinder.			
7.	The thickness of the retaining ring shall be at least 0.47 in. [12 mm] for 6 in. [150 mm] diameter retainers and at least 0.35 in. [9 mm] for 4 in. [100 mm] diameter retainers.			
8.	The surface of the base plate that contacts the bearing block of the testing machine shall be plane to within 0.002 in. [0.05 mm].			
9.	The thickness of the base plate shall be at least 0.47 in. [12 mm] for 6 in. [150 mm] retainers and at least 0.3 in. [8 mm] for 4 in. [100 mm] retainers.			
10.	The bearing surfaces of the retainers shall not have gouges, grooves, protrusions, or indentations greater than 0.010 in. [0.25 mm] deep or greater than 0.05 in ² [32 mm ²] in surface area.			

Remarks:

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

Employer's/Supervisor's E-mail Address: _____