



*** NATIONAL LUBRICATION GREASE INSTITUTE**

ASTM TEST D-217

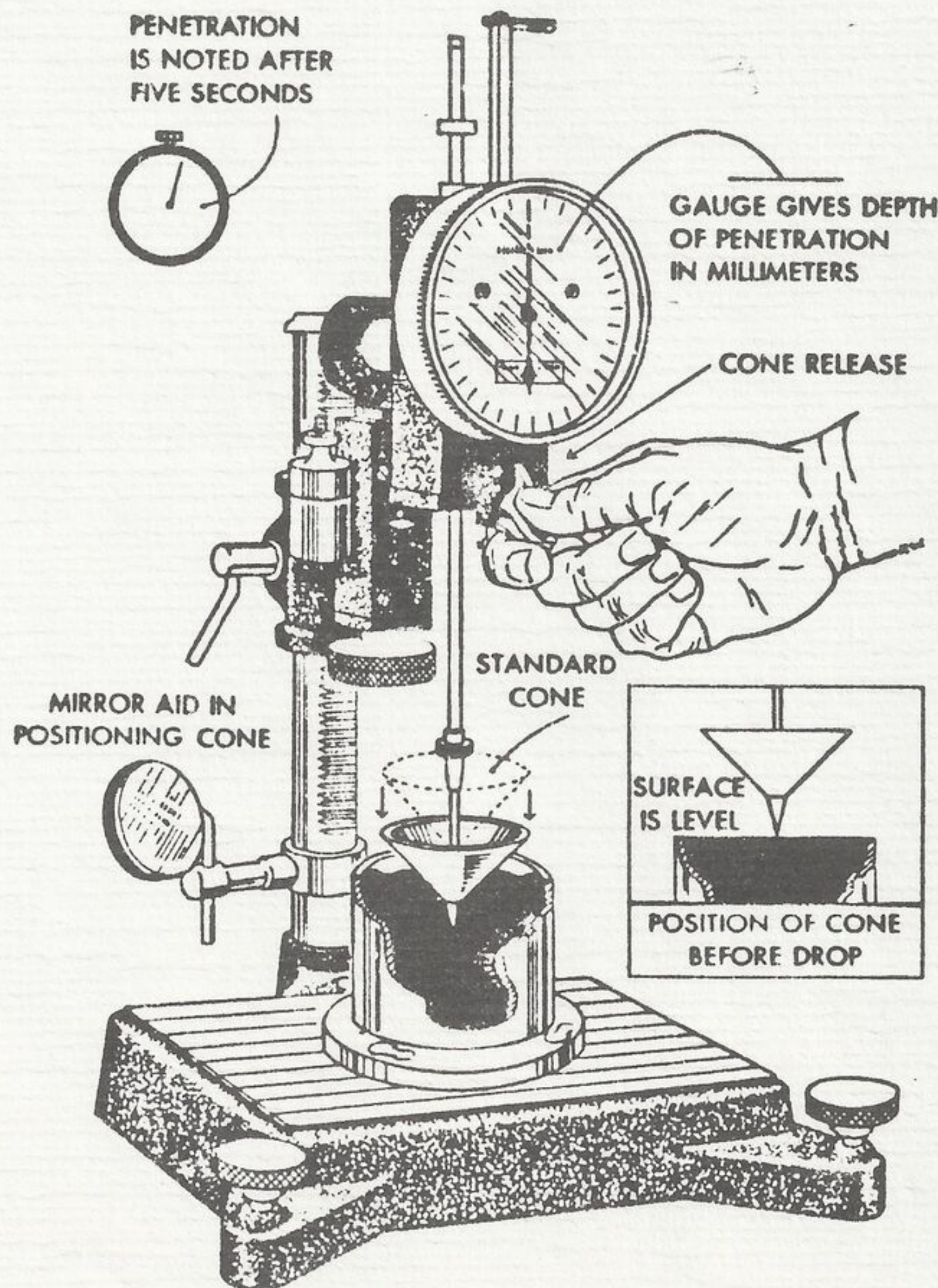
One Point = 0.1 mm @ 77 +/- 2 °F

WHAT IS PENETRATION?

Penetration, with respect to a lubricating grease, is the depth (in tenths of a millimeter) that a standard cone penetrates a sample of the grease under prescribed conditions of weight, time, and temperature.

HOW TO DETERMINE PENETRATION

The grease is brought to a standard temperature in a container which is then placed directly below the cone tip. Release of the plunger permits the cone to drop into the grease. The depth of penetration, in tenths of millimeters, is read on the scale of the penetrometer.



PENETRATION RANGE	*NLGI NUMBER
85	6
100	
115	
130	5
145	
160	
175	4
190	
205	
220	3
235	
250	
265	2
280	
295	
310	1
325	
340	
355	0
370	
385	
400	00
415	
430	
445	000
460	
475	