

# Torque Specifications

Many times, removing and replacing a cap on a container seems like a simple task, but there is more to the process. The rotational force applied during application or removal of a cap from a container is called torque. Over-tightening or under-tightening can lead to product leakage due to liners and seals not fitting properly, or closures coming loose in transit. Over-torquing the closure could damage the closure or container, causing an improper seal. If torque specifications are followed, the contents in the container should not leak, and the cap should be easily removed with a reasonable amount of effort. When choosing your packaging components, you should take into account the material of both the closure and the container for torque specifications. So remember, always check with your supplier or the manufacturer for their recommendations before filling, and get samples to test your product.

## Application Torque Guide

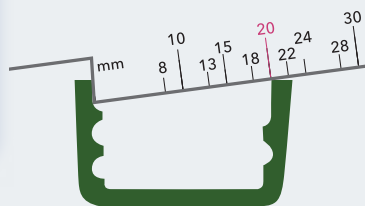
**Cap Size (mm)**      **Application Torque Range (inch pounds)**

10	4-8
13	5-9
15	5-9
18	7-10
20	8-12
22	9-14
24	10-18
28	12-21
33	15-25
38	17-26
43	17-27
48	19-30
53	21-36
58	23-40
63	24-43
70	28-50
83	32-60
89	40-70
110	45-70



### TO MEASURE CAP:

Place ruler across underside of cap with notch flush against inner wall. Read to opposite inner wall of cap.



### TO MEASURE FINISH:

Place ruler across bottle mouth with hook tight against thread. Read to outer edge of thread on opposite side of mouth.

