



Shawn Glover  
Industrial Plankton Inc.  
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This letter is in response to your request for integrity test values for Pall Kleenpak™ capsules with part numbers:

- KA3NTP6, Kleenpak capsules containing Ultipor® N6,6 NT grade membrane filter(s)
- KA3PFRP6, Kleenpak capsules containing Emflon® PFR membrane filter(s)
- KA3PFRP1, Kleenpak capsules containing Emflon PFR membrane filter(s)
- NP6DJLP6G, Kleenpak Nova capsules containing Fluorodyne® II DJL grade membrane filter(s)
- KA02DJLP2G, Mini Kleenpak capsules containing Fluorodyne II DJL grade membrane filter(s)

using 70/30 IPA/Water as a wetting fluid. These values apply to a test temperature of 20 ± 5°C. During the test, the temperature should not vary by more than 1°C.

**Forward Flow Test Parameters using Air**

Filter Part Number	Wetting Fluid	Test Pressure	Maximum Allowable Forward Flow	Minimum Expected Bubble Point
KA3NTP6	70/30 IPA/WATER	23.5 psig	7 cc/min	27.0 psig
KA3PFRP6	70/30 IPA/WATER	14.5 psig	5.5 cc/min	18.5 psig
KA3PFRP1	70/30 IPA/WATER	14.5 psig	5.5 cc/min	18.5 psig
NP6DJLP6G	70/30 IPA/WATER	21.5 psig	13 cc/min	24.0 psig
KA02DJLP2G	70/30 IPA/WATER	21.5 psig	0.44 cc/min	24.0 psig

If the apparent bubble point is below this value, the integrity of the filter should be confirmed using the recommended Forward Flow test.

Pall Corporation is pleased to have assisted Industrial Plankton with this request. If I can be of further assistance, do not hesitate to contact me at 905-593-4362.

Sincerely Yours,

PALL CORPORATION

Angelica Zdunski  
Manager, Biotech  
**Biotech – Technical and Applications Center**