WHAT IS CLAIMED IS:

1. A catheter assembly, comprising:

a catheter adapter, comprising a distal end, a proximal end, an inner surface extending through the distal end and the proximal end and forming a lumen, and a side port forming a side port pathway through a sidewall of the catheter adapter and in fluid communication with the lumen;

a catheter extending distally from the distal end of the catheter adapter;

a septum disposed within the lumen proximal to the side port pathway, wherein a portion of the inner surface proximal to the catheter and distal to the septum comprises a textured surface, and

wherein the textured surface includes a plurality of features arranged in one or more staggered rows.

2. The catheter assembly of claim 1, wherein the textured surface is rough.

3. The catheter assembly of claim 1, wherein each of the plurality of features comprises a depression or protrusion.

4. The catheter assembly of claim 3, wherein each of the depressions or protrusions are dome shaped.

5. The catheter assembly of claim 1, wherein the textured surface extends into the side port pathway.