

ABSTRACT

A covered medical device includes a main mesh stent (10) and a cover (20). The cover (20) covers at least part of an external surface of the main mesh stent (10) and comprises first and second friction zones, which are arranged along an axis of the main mesh stent (10) from a proximal end (101) to a distal end (102) thereof. The first friction zone has a COF lower than a COF of the second friction zone and extends from the proximal end (101) of the main mesh stent (10) and covers a maximum outer diameter position of the mesh stent (10). Through the first and second friction zones of the cover (20), this covered medical device provides good sheath loading performance and anchoring performance. It can be loaded into a sheath with less effort and provide high anchoring strength, without compromising other performance aspects.