FORÉCREU
BUILDING CRITICAL PARTNERSHIPS

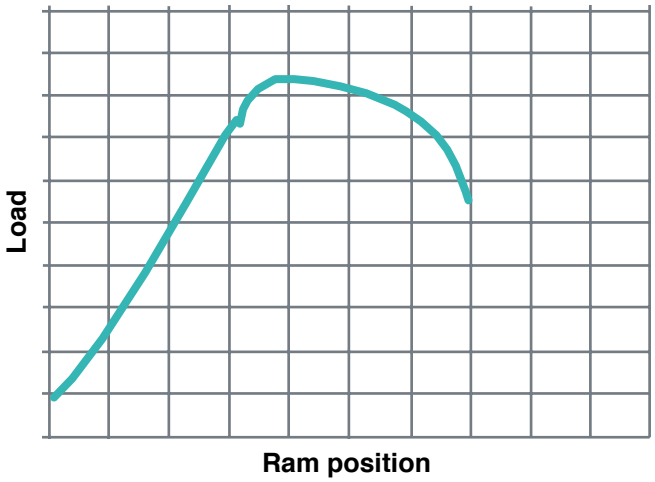
BSSM

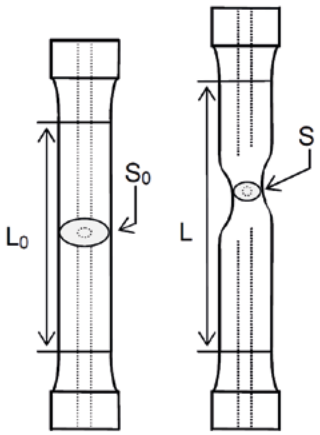
MEDICAL
MECHANICAL TESTING FOR STAINLESS STEELS CANNULATED BARS

TENSILE TEST

Mechanical tests are performed according to ASTM E8M specification.

- Tensile strength, yield strength, elongation, are tested for each and every batch in our laboratory with a 200 KN equipment.
- Typical test curve is following.





GENERAL FEATURES OF STAINLESS STEELS USED FOR MEDICAL IMPLANT APPLICATIONS

	Condition	UTS Mpa / (ksi) mini	UTS typical	YS Mpa / (ksi) mini	YS typical	e% mini (5D)	e% typical (5D)
ASTM F138 ISO 5832-1 316 L M25W™	Annealed	490 to 690 (71 to 100)	590 (86)	190 (28)	300 (44)	40*	44
	Medium Hard	860 to 1100 (125 to 160)					
	Hard	1100 (160)	1180 (171)	Not Specified	990 (144)	Not Specified	10
ASTM F1586 ISO 5832-9 REX 734™ M30NW™	Annealed	740 (107)	900 (131)	430 (62)	590 (86)	35*	36
	Medium Hard	1000 (145)	1035 (150)	700 (102)	815 (118)	20 (4D)	22
	Hard	1100 (160)		1000 (145)		10 (4D)	

* gage length = (5D) toi meet ASTM requirement.

SAMPLING PROCEDURE

- Each and every batch is sampled according to ANSI / ASQC Z1.4 1993.

Mise à jour : Juin 2022