

NIST Fully-Toleranced Test Case 11 - Feature and Specification Index [FTC11]

12/14/2016 Rev. B

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Feature ID	Feature Description	Specification	Element ID	Comments
F1	Datum Feature A	Flatness 0.3 $\text{\textcircled{F}}$	T1	
		Datum Feature Symbol A	DF1	
F2	Datum Feature B - I.D. of Inner Torus Major Diameter	$\text{\textcircled{F}}\text{\textcircled{D}}32 \pm 0.3$ AVG (I.D.)	D1	Applies to inner circular diameter
		Circularity 1.2 $\text{\textcircled{F}}$	T2	
		Datum Feature Symbol B	DF2	
F3	O.D. of Outer Torus Major Diameter	$\text{\textcircled{F}}\text{\textcircled{D}}63 \pm 0.5$ AVG (O.D.)	D2	Applies to outer circular diameter
		$\text{\textcircled{F}}\text{\textcircled{A}}$ (197.9)	D3	Arc length dimension - applies to circumference of outer circular diameter
		Circular Runout 1.2 $\text{\textcircled{F}}$ A B	T3	
F4-F5	Inner Torus and Outer Torus Minor Diameter	2X R1.5 ± 0.04	D4	
F6	Top of Web	Profile 0.3 $\text{\textcircled{F}}$ A B	T4	
F7	Thickness of Web	1.93 ± 0.08	D5	Envelope principle does not apply to web thickness
F8	Optional Tooling Radii	2X R0.1 MAX	D6	Optional radius for molding
MCS1	MCS for Views A, B		CS1-1	Main MCS for model
	MCS for DRF A B		CS1-2	Same location as CS1-1
-	General Notes	NOTES...	STR1	Flat to screen
-	Identifier for Section View B		VSI1	

Notes:

- Per expert review, it was decided that this part doesn't need draft.
- There are no specifications in this FTC that contain semantically-important extension lines or annotation plane placement.

Revisions:

- Added STR1 for General Notes
- Added VSI to LEGEND
- Added VSI1 for Section View B

LEGEND	
CS	Coordinate System
D	Dimension
DF	Datum Feature
SIELD	PMI entity contains Semantically-Important Extension Line Direction
STR	String
T	Tolerance
VSI	View or Section Identifier