



METRIC - NYLON INSERT STOP NUTS, HEAVY PATTERN, CLASS 9 STYLE 2							ISO 7040
Nominal Size	Thread Pitch	F		G	H		I
		Width Across Flats		Width Across Corners	Thickness		Wrenching Height
		Max	Min	Min	Max	Min	Min
M5	0.8	8.00	7.78	8.79	7.20	6.62	3.52
M6	1	10.00	9.78	11.05	8.50	7.92	3.92
M8	1.25	13.00	12.73	14.38	10.2	9.5	5.15
M10	1.5	16.00	15.73	17.77	12.8	12.1	6.43
M12	1.75	18.00	17.73	20.03	16.1	15.4	8.3
M16	2	24.00	23.67	26.75	20.7	19.4	11.28
M20	2.5	30.00	29.16	32.95	25.1	23.0	13.52
M24	3	36	35	39.55	29.5	27.4	16.16
M30	3.5	46	45	50.85	35.6	33.1	19.44
M36	4	55.0	53.8	60.79	42.6	40.1	23.52

<b>Description</b>	Similar in design to a regular nylon insert stop nut except that it is 6-8% thicker. When a screw reaches the collar, the threads and nylon form a tight, frictional fit, restricting movement of the screw when it is subjected to vibration. The nylon insert comes in various colors.
<b>Applications/ Advantages</b>	Provides a greater length of thread engagement than regular nylon insert stop nuts resulting in greater proof load stress properties. Class 9, style 2 metric nylon insert lock nuts are to be used with screw of a Class 9.8 or less. It is able to be reused more times than a two-way reversible nut. It is less expensive than a Grade-C automation lock nut. Nylon insert lock nuts are designed for use in temperatures from -73°C to +120°C.
<b>Material</b>	Class 9 metric nylon insert lock nuts shall be made of a steel which conforms to the following chemical composition-- <i>Carbon</i> : 0.58% maximum; <i>Manganese</i> : 0.25% minimum; <i>Phosphorus</i> : 0.060% maximum; <i>Sulfur</i> : 0.150% maximum. Insert is made of polyamid.
<b>Hardness</b>	<b>M3 - M4</b> : HV 170 - 302 (Rockwell B85 - C30) <b>M5 - M36</b> : HV 188 - 302 (Rockwell B89 - C30)
<b>Proof Load (N/mm<sup>2</sup>)</b>	<b>M3 - M4</b> : 900 <b>M5 - M7</b> : 915 <b>M8 - M10</b> : 940 <b>M12 - M16</b> : 950 <b>M20 - M36</b> : 920
<b>Plating</b>	See Appendix-A for plating information