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MECHANICAL PROPERTIES OF NUT

Nominal Thread diameter mm		Property Class								
		Class 5 ^{1) 3)}			Class 6 ^{1) 3)}			Class 8 ^{1) 3)}		
		Test Stress Sp	Vickers Hardness HV		Test Stress Sp	Vickers Hardness HV		Test Stress Sp	Vickers Hardness HV	
MPa			MPa			MPa				
above	up to	n/mm ²	min.	max.	n/mm ²	min.	max.	n/mm ²	min.	max.
-	4	520	130	302	600	150	302	800	170	302
4	7	580			670			810		
7	10	590			680			830		
10	16	610			700			840		
16	39	630	146		720	170		920	233	353
39	100	-	128		-	142		-	207	

Nominal Thread diameter mm		Property Class										
		Class 9 ^{1) 4)}			Class 10 ^{2) 3)}			Class 12 ^{2) 3) 4)}				
		Test Stress Sp	Vickers Hardness HV		Test Stress Sp	Vickers Hardness HV		Test Stress Sp	Vickers Hardness HV			
MPa			MPa			MPa						
above	up to	n/mm ²	min.	max.	n/mm ²	min.	max.	n/mm ²	min.	max.		
-	4	900	170	302	1040	272	353	1150	295 ⁵⁾	272 ⁶⁾	353	
4	7	915	188					1050				1150
7	10	940						1060				1160
10	16	950						1190				
16	39	920	-		1200	-		-	-	-		
39	100	-	-	-	-	-	-	-	-	-		

1) not hardened

2) hardened

3) style 1 nut

4) style 2 nut

5) specified hardness for style 1 nuts

6) specified hardness for style 2 nuts

Note:

• The minimum hardness values are binding only for nuts for which a test stress measurement cannot be performed and for heat-treated nuts. The minimum values are guidelines for all other nuts

• The minimum hardness values for nuts with nominal thread diameters above 39 and to 100 mm are for information only and are guide values.

The mechanical properties as listed above apply to:

Hexagon nuts	Lock nuts	Flange lock nut	Flange nuts
<ul style="list-style-type: none"> ISO 4032 / 4033 DIN 970 ANSI B18.2.4.1M/ B18.2.4.2M 	<ul style="list-style-type: none"> ISO 7040 / 7041/ 7042/ 7719 DIN 6924/ 6925/ 982 ANSI B18.16.3M/ B18.16.3M 	<ul style="list-style-type: none"> ISO 4161 DIN 6923 ANSI B18.16M 	<ul style="list-style-type: none"> ISO 7043/ 7044 DIN 6926/ 6927 ANSI B18.16.3M

The above chart does not apply to all metric nuts with coarse threads. For those nuts with the property class marking enclosed bet-ween two vertical lines, ex. |8|, the individual product standard should be consulted.

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