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Design of Cotter Joint Formulas

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List of 51 Design of Cotter Joint Formulas

Design of Cotter Joint

Forces and Loads on Joint

1) Force on Cotter given Shear Stress in Cotter

$$fx \quad L = 2 \cdot t_c \cdot b \cdot \tau_{co}$$

[Open Calculator !\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\)](#)

$$ex \quad 50000.78N = 2 \cdot 21.478mm \cdot 48.5mm \cdot 24N/mm^2$$

2) Load Taken by Cotter Joint Rod given Tensile Stress in Rod

$$fx \quad L = \frac{\pi \cdot d^2 \cdot \sigma_{t_{rod}}}{4}$$

[Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa_img.jpg\)](#)

$$ex \quad 50000.61N = \frac{\pi \cdot (35.6827mm)^2 \cdot 50N/mm^2}{4}$$

3) Load Taken by Socket of Cotter Joint given Compressive Stress

$$fx \quad L = \sigma_{cso} \cdot (d_4 - d_2) \cdot t_c$$

[Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d_img.jpg\)](#)

$$ex \quad 50000.78N = 58.20N/mm^2 \cdot (80mm - 40mm) \cdot 21.478mm$$

4) Load Taken by Socket of Cotter Joint given Shear Stress in Socket

$$fx \quad L = 2 \cdot (d_4 - d_2) \cdot c \cdot \tau_{so}$$

[Open Calculator !\[\]\(166772600a13ad0a433053f90fe45649_img.jpg\)](#)

$$ex \quad 50000N = 2 \cdot (80mm - 40mm) \cdot 25.0mm \cdot 25N/mm^2$$

5) Load Taken by Socket of Cotter Joint given Tensile Stress in Socket

$$fx \quad L = (\sigma_{tso}) \cdot \left(\frac{\pi}{4} \cdot (d_1^2 - d_2^2) - t_c \cdot (d_1 - d_2) \right)$$

[Open Calculator !\[\]\(a8ff699ced33317c53c86f9bf3171905_img.jpg\)](#)

$$ex \quad 50000.82N = 68.224N/mm^2 \cdot \left(\frac{\pi}{4} \cdot \left((54mm)^2 - (40mm)^2 \right) - 21.478mm \cdot (54mm - 40mm) \right)$$



6) Load Taken by Spigot of Cotter Joint given Compressive Stress in Spigot Considering Crushing Failure

$$fx \quad L = t_c \cdot d_2 \cdot \sigma_{c1}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\)](#)

$$ex \quad 50000.78N = 21.478mm \cdot 40mm \cdot 58.2N/mm^2$$

7) Load Taken by Spigot of Cotter Joint given Shear Stress in Spigot

$$fx \quad L = 2 \cdot L_a \cdot d_2 \cdot \tau_{sp}$$

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)

$$ex \quad 50000.48N = 2 \cdot 23.5mm \cdot 40mm \cdot 26.596N/mm^2$$

8) Maximum Load taken by Cotter Joint given Spigot Diameter, Thickness and Stress

$$fx \quad L = \left(\frac{\pi}{4} \cdot d_2^2 - d_2 \cdot t_c \right) \cdot (\sigma_{tsp})$$

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\)](#)

$$ex \quad 50000.89N = \left(\frac{\pi}{4} \cdot (40mm)^2 - 40mm \cdot 21.478mm \right) \cdot 125.783N/mm^2$$

9) Permissible Shear Stress for Cotter

$$fx \quad \tau_p = \frac{P}{2 \cdot b \cdot t_c}$$

[Open Calculator !\[\]\(b64b40baaee5acddc1eab8538ba84754_img.jpg\)](#)

$$ex \quad 719988.7N/m^2 = \frac{1500N}{2 \cdot 48.5mm \cdot 21.478mm}$$


10) Permissible Shear Stress for Spigot

$$fx \quad \tau_p = \frac{P}{2 \cdot a \cdot d_{ex}}$$

[Open Calculator !\[\]\(aff7c69c44a5e015f18c35867ef3f5c3_img.jpg\)](#)

$$ex \quad 957854.4N/m^2 = \frac{1500N}{2 \cdot 17.4mm \cdot 45mm}$$



11) Tensile Stress in Spigot 

$$fx \quad \sigma_t = \frac{P}{\left(\frac{\pi}{4} \cdot d_{ex}^2\right) - (d_{ex} \cdot t_c)}$$

Open Calculator 

$$ex \quad 2.404149N/mm^2 = \frac{1500N}{\left(\frac{\pi}{4} \cdot (45mm)^2\right) - (45mm \cdot 21.478mm)}$$

Joint Geometry and Dimensions 12) Cross Section Area of Socket End Resisting Shear Failure 

$$fx \quad A = (d_4 - d_2) \cdot c$$

Open Calculator 

$$ex \quad 1000mm^2 = (80mm - 40mm) \cdot 25.0mm$$

13) Cross Section Area of Socket of Cotter Joint Prone to Failure 

$$fx \quad A = \frac{\pi}{4} \cdot (d_1^2 - d_2^2) - t_c \cdot (d_1 - d_2)$$

Open Calculator 


$$ex \quad 732.892mm^2 = \frac{\pi}{4} \cdot \left((54mm)^2 - (40mm)^2\right) - 21.478mm \cdot (54mm - 40mm)$$

14) Cross Section Area of Spigot of Cotter Joint Prone to Failure 

$$fx \quad A_s = \frac{\pi \cdot d_2^2}{4} - d_2 \cdot t_c$$

Open Calculator 

$$ex \quad 397.5171mm^2 = \frac{\pi \cdot (40mm)^2}{4} - 40mm \cdot 21.478mm$$

15) Diameter of Rod of Cotter Joint given Socket Collar Diameter 

$$fx \quad d = \frac{d_4}{2.4}$$

Open Calculator 

$$ex \quad 33.33333mm = \frac{80mm}{2.4}$$



16) Diameter of Rod of Cotter Joint given Spigot Collar Diameter 

$$fx \quad d = \frac{d_3}{1.5}$$

Open Calculator 


$$ex \quad 32\text{mm} = \frac{48\text{mm}}{1.5}$$

17) Diameter of Rod of Cotter Joint given Thickness of Cotter 

$$fx \quad d = \frac{t_c}{0.31}$$

Open Calculator 


$$ex \quad 69.28387\text{mm} = \frac{21.478\text{mm}}{0.31}$$

18) Diameter of Rod of Cotter Joint given Thickness of Spigot Collar 

$$fx \quad d = \frac{t_1}{0.45}$$

Open Calculator 


$$ex \quad 28.88889\text{mm} = \frac{13\text{mm}}{0.45}$$

19) Diameter of Socket Collar given Rod Diameter 

$$fx \quad d_4 = 2.4 \cdot d$$

Open Calculator 

$$ex \quad 85.63848\text{mm} = 2.4 \cdot 35.6827\text{mm}$$

20) Diameter of Socket Collar of Cotter Joint given Bending Stress in Cotter 

$$fx \quad d_4 = \frac{4 \cdot b^2 \cdot \sigma_b \cdot \frac{t_c}{L} - d_2}{2}$$

Open Calculator 

$$ex \quad 178.0448\text{mm} = \frac{4 \cdot (48.5\text{mm})^2 \cdot 98\text{N}/\text{mm}^2 \cdot \frac{21.478\text{mm}}{50000\text{N}} - 40\text{mm}}{2}$$




21) Diameter of Socket Collar of Cotter Joint given Compressive Stress 

$$fx \quad d_4 = d_2 + \frac{L}{t_c \cdot \sigma_{c1}}$$

Open Calculator 


$$ex \quad 79.99937\text{mm} = 40\text{mm} + \frac{50000\text{N}}{21.478\text{mm} \cdot 58.2\text{N}/\text{mm}^2}$$

22) Diameter of socket collar of cotter joint given shear stress in socket 

$$fx \quad d_4 = \frac{L}{2 \cdot c \cdot \tau_{so}} + d_2$$

Open Calculator 

$$ex \quad 80\text{mm} = \frac{50000\text{N}}{2 \cdot 25.0\text{mm} \cdot 25\text{N}/\text{mm}^2} + 40\text{mm}$$

23) Diameter of Spigot Collar given Rod Diameter 

$$fx \quad d_3 = 1.5 \cdot d$$

Open Calculator 

$$ex \quad 53.52405\text{mm} = 1.5 \cdot 35.6827\text{mm}$$

24) Diameter of Spigot of Cotter Joint given Bending Stress in Cotter 

$$fx \quad d_2 = 4 \cdot b^2 \cdot \sigma_b \cdot \frac{t_c}{L} - 2 \cdot d_4$$

Open Calculator 

$$ex \quad 236.0895\text{mm} = 4 \cdot (48.5\text{mm})^2 \cdot 98\text{N}/\text{mm}^2 \cdot \frac{21.478\text{mm}}{50000\text{N}} - 2 \cdot 80\text{mm}$$

25) Diameter of Spigot of Cotter Joint given Compressive Stress 

$$fx \quad d_2 = d_4 - \frac{L}{t_c \cdot \sigma_{c1}}$$

Open Calculator 

$$ex \quad 40.00063\text{mm} = 80\text{mm} - \frac{50000\text{N}}{21.478\text{mm} \cdot 58.2\text{N}/\text{mm}^2}$$



26) Diameter of Spigot of Cotter Joint given Shear Stress in Spigot [Open Calculator !\[\]\(feabb98897b440bc8695a03336a6e2df_img.jpg\)](#)

$$fx \quad d_2 = \frac{L}{2 \cdot L_a \cdot \tau_{sp}}$$

$$ex \quad 39.99962\text{mm} = \frac{50000\text{N}}{2 \cdot 23.5\text{mm} \cdot 26.596\text{N}/\text{mm}^2}$$

27) Inside Diameter of Socket of Cotter Joint given Shear Stress in Socket [Open Calculator !\[\]\(642aa997563f9a325b310230bb5078b7_img.jpg\)](#)

$$fx \quad d_2 = d_4 - \frac{L}{2 \cdot c \cdot \tau_{so}}$$

$$ex \quad 40\text{mm} = 80\text{mm} - \frac{50000\text{N}}{2 \cdot 25.0\text{mm} \cdot 25\text{N}/\text{mm}^2}$$

28) Minimum Diameter of Spigot in Cotter Joint Subjected to Crushing Stress [Open Calculator !\[\]\(51514032c8ca341817228f39f1307b05_img.jpg\)](#)

$$fx \quad d_2 = \frac{L}{\sigma_c \cdot t_c}$$

$$ex \quad 18.4759\text{mm} = \frac{50000\text{N}}{126\text{N}/\text{mm}^2 \cdot 21.478\text{mm}}$$

29) Minimum Rod Diameter in Cotter Joint given Axial Tensile Force and Stress [Open Calculator !\[\]\(f219cfc00b8db0cd1a81ae1fc9afaf28_img.jpg\)](#)

$$fx \quad d = \sqrt{\frac{4 \cdot L}{\sigma t_{rod} \cdot \pi}}$$

$$ex \quad 35.68248\text{mm} = \sqrt{\frac{4 \cdot 50000\text{N}}{50\text{N}/\text{mm}^2 \cdot \pi}}$$

30) Thickness of Cotter given Compressive Stress in Socket [Open Calculator !\[\]\(8aa05b4b06c05d58ddd90cdbf335b307_img.jpg\)](#)

$$fx \quad t_c = \frac{L}{(d_4 - d_2) \cdot \sigma_{cso}}$$

$$ex \quad 21.47766\text{mm} = \frac{50000\text{N}}{(80\text{mm} - 40\text{mm}) \cdot 58.20\text{N}/\text{mm}^2}$$



31) Thickness of Cotter given Compressive Stress in Spigot [Open Calculator !\[\]\(3d8c13c92b853674f749aac6fa869926_img.jpg\)](#)


$$fx \quad t_c = \frac{L}{\sigma_{c1} \cdot d_2}$$

$$ex \quad 21.47766\text{mm} = \frac{50000\text{N}}{58.2\text{N/mm}^2 \cdot 40\text{mm}}$$

32) Thickness of Cotter given Shear Stress in Cotter [Open Calculator !\[\]\(17acf1afa8cdf0b67c53d4865a5ed469_img.jpg\)](#)


$$fx \quad t_c = \frac{L}{2 \cdot \tau_{co} \cdot b}$$

$$ex \quad 21.47766\text{mm} = \frac{50000\text{N}}{2 \cdot 24\text{N/mm}^2 \cdot 48.5\text{mm}}$$

33) Thickness of Cotter given Tensile Stress in Socket [Open Calculator !\[\]\(d8ab143e904bfa3467271eec5af75a9b_img.jpg\)](#)


$$fx \quad t_c = \frac{\left(\frac{\pi}{4} \cdot (d_1^2 - d_2^2)\right) - \frac{F_c}{\sigma_{tSO}}}{d_1 - d_2}$$

$$ex \quad 68.59257\text{mm} = \frac{\left(\frac{\pi}{4} \cdot ((54\text{mm})^2 - (40\text{mm})^2)\right) - \frac{5000\text{N}}{68.224\text{N/mm}^2}}{54\text{mm} - 40\text{mm}}$$

34) Thickness of Cotter Joint [Open Calculator !\[\]\(2b17f17ebbacc911bb0ff784ab641779_img.jpg\)](#)

$$fx \quad t_c = 0.31 \cdot d$$


$$ex \quad 11.06164\text{mm} = 0.31 \cdot 35.6827\text{mm}$$

35) Thickness of Cotter Joint given Bending Stress in Cotter [Open Calculator !\[\]\(9a795c4c0c43d0827b424565265fc8e6_img.jpg\)](#)

$$fx \quad t_c = (2 \cdot d_4 + d_2) \cdot \left(\frac{L}{4 \cdot b^2 \cdot \sigma_b}\right)$$

$$ex \quad 10.84502\text{mm} = (2 \cdot 80\text{mm} + 40\text{mm}) \cdot \left(\frac{50000\text{N}}{4 \cdot (48.5\text{mm})^2 \cdot 98\text{N/mm}^2}\right)$$




36) Thickness of Spigot Collar when Rod Diameter is Available 

$$fx \quad t_1 = 0.45 \cdot d$$

[Open Calculator !\[\]\(c3d993ca47bfe2a953c700506ce31fa0_img.jpg\)](#)


$$ex \quad 16.05722\text{mm} = 0.45 \cdot 35.6827\text{mm}$$

37) Width of Cotter by Bending Consideration 

$$fx \quad b = \left(3 \cdot \frac{L}{t_c \cdot \sigma_b} \cdot \left(\frac{d_2}{4} + \frac{d_4 - d_2}{6} \right) \right)^{0.5}$$

[Open Calculator !\[\]\(17413706fd4997a1a4bdf85c6864eee1_img.jpg\)](#)

$$ex \quad 34.46355\text{mm} = \left(3 \cdot \frac{50000\text{N}}{21.478\text{mm} \cdot 98\text{N/mm}^2} \cdot \left(\frac{40\text{mm}}{4} + \frac{80\text{mm} - 40\text{mm}}{6} \right) \right)^{0.5}$$

38) Width of Cotter by Shear Consideration 

$$fx \quad b = \frac{V}{2 \cdot \tau_{co} \cdot t_c}$$

[Open Calculator !\[\]\(4b7a79268f6ba26c1471d4232fffa85a_img.jpg\)](#)


$$ex \quad 23.08564\text{mm} = \frac{23800\text{N}}{2 \cdot 24\text{N/mm}^2 \cdot 21.478\text{mm}}$$

Strength and Stress 39) Bending Stress in Cotter of Cotter Joint 

$$fx \quad \sigma_b = \left(3 \cdot \frac{L}{t_c \cdot b^2} \right) \cdot \left(\frac{d_2 + 2 \cdot d_4}{12} \right)$$

[Open Calculator !\[\]\(56549452e01ca28bdf2500ced9653143_img.jpg\)](#)

$$ex \quad 49.48376\text{N/mm}^2 = \left(3 \cdot \frac{50000\text{N}}{21.478\text{mm} \cdot (48.5\text{mm})^2} \right) \cdot \left(\frac{40\text{mm} + 2 \cdot 80\text{mm}}{12} \right)$$

40) Compressive Stress in Socket of Cotter Joint given Diameter of Spigot and of Socket Collar 

$$fx \quad \sigma_{cso} = \frac{L}{(d_4 - d_2) \cdot t_c}$$

[Open Calculator !\[\]\(bff896c19919791b89ab521f039b410a_img.jpg\)](#)


$$ex \quad 58.19909\text{N/mm}^2 = \frac{50000\text{N}}{(80\text{mm} - 40\text{mm}) \cdot 21.478\text{mm}}$$



41) Compressive Stress in Spigot of Cotter Joint Considering Crushing Failure [Open Calculator !\[\]\(99f58673407353e96a019fbca558fd72_img.jpg\)](#)


$$fx \quad \sigma_{c1} = \frac{L}{t_c \cdot d_2}$$

$$ex \quad 58.19909\text{N/mm}^2 = \frac{50000\text{N}}{21.478\text{mm} \cdot 40\text{mm}}$$

42) Compressive Stress of Spigot [Open Calculator !\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\)](#)


$$fx \quad \sigma_{cp} = \frac{L}{t_c \cdot D_s}$$

$$ex \quad 46.55927\text{N/mm}^2 = \frac{50000\text{N}}{21.478\text{mm} \cdot 50.0\text{mm}}$$

43) Permissible Shear Stress for Cotter [Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa_img.jpg\)](#)

$$fx \quad \tau_p = \frac{P}{2 \cdot b \cdot t_c}$$

$$ex \quad 719988.7\text{N/m}^2 = \frac{1500\text{N}}{2 \cdot 48.5\text{mm} \cdot 21.478\text{mm}}$$

44) Permissible Shear Stress for Spigot [Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d_img.jpg\)](#)

$$fx \quad \tau_p = \frac{P}{2 \cdot a \cdot d_{ex}}$$

$$ex \quad 957854.4\text{N/m}^2 = \frac{1500\text{N}}{2 \cdot 17.4\text{mm} \cdot 45\text{mm}}$$

45) Shear Stress in Cotter given Cotter Thickness and Width [Open Calculator !\[\]\(166772600a13ad0a433053f90fe45649_img.jpg\)](#)

$$fx \quad \tau_{co} = \frac{L}{2 \cdot t_c \cdot b}$$

$$ex \quad 23.99962\text{N/mm}^2 = \frac{50000\text{N}}{2 \cdot 21.478\text{mm} \cdot 48.5\text{mm}}$$



46) Shear Stress in Socket of Cotter Joint given Inner and Outer Diameter of Socket 

$$fx \quad \tau_{so} = \frac{L}{2 \cdot (d_4 - d_2) \cdot c}$$

Open Calculator 

$$ex \quad 25\text{N/mm}^2 = \frac{50000\text{N}}{2 \cdot (80\text{mm} - 40\text{mm}) \cdot 25.0\text{mm}}$$

47) Shear Stress in Spigot of Cotter Joint given Diameter of Spigot and Load 

$$fx \quad \tau_{sp} = \frac{L}{2 \cdot L_a \cdot d_2}$$

Open Calculator 


$$ex \quad 26.59574\text{N/mm}^2 = \frac{50000\text{N}}{2 \cdot 23.5\text{mm} \cdot 40\text{mm}}$$

48) Tensile Stress in Rod of Cotter Joint 

$$fx \quad \sigma_{t_{rod}} = \frac{4 \cdot L}{\pi \cdot d^2}$$

Open Calculator 


$$ex \quad 49.99939\text{N/mm}^2 = \frac{4 \cdot 50000\text{N}}{\pi \cdot (35.6827\text{mm})^2}$$

49) Tensile Stress in Socket of Cotter Joint given Outer and Inner Diameter of Socket 

$$fx \quad (\sigma_{tSO}) = \frac{L}{\frac{\pi}{4} \cdot (d_1^2 - d_2^2) - t_c \cdot (d_1 - d_2)}$$

Open Calculator 

$$ex \quad 68.22288\text{N/mm}^2 = \frac{50000\text{N}}{\frac{\pi}{4} \cdot ((54\text{mm})^2 - (40\text{mm})^2) - 21.478\text{mm} \cdot (54\text{mm} - 40\text{mm})}$$


50) Tensile Stress in Spigot 

$$fx \quad \sigma_t = \frac{P}{\left(\frac{\pi}{4} \cdot d_{ex}^2\right) - (d_{ex} \cdot t_c)}$$

Open Calculator 

$$ex \quad 2.404149\text{N/mm}^2 = \frac{1500\text{N}}{\left(\frac{\pi}{4} \cdot (45\text{mm})^2\right) - (45\text{mm} \cdot 21.478\text{mm})}$$



51) Tensile Stress in Spigot of Cotter Joint given Diameter of Spigot, Thickness of Cotter and Load [Open Calculator](#) 

$$fx \quad (\sigma_{tsp}) = \frac{L}{\frac{\pi \cdot d_2^2}{4} - d_2 \cdot t_c}$$

$$ex \quad 125.7808 \text{N/mm}^2 = \frac{50000 \text{N}}{\frac{\pi \cdot (40 \text{mm})^2}{4} - 40 \text{mm} \cdot 21.478 \text{mm}}$$



Variables Used






- **a** Spigot Distance (Millimeter)
- **A** Cross Sectional Area of Socket (Square Millimeter)
- **A_s** Cross Sectional Area of Spigot (Square Millimeter)
- **b** Mean Width of Cotter (Millimeter)
- **c** Axial Distance From Slot to End of Socket Collar (Millimeter)
- **d** Diameter of Rod of Cotter Joint (Millimeter)
- **d₁** Outside Diameter of Socket (Millimeter)
- **d₂** Diameter of Spigot (Millimeter)
- **d₃** Diameter of Spigot Collar (Millimeter)
- **d₄** Diameter of Socket Collar (Millimeter)
- **d_{ex}** External Diameter of Spigot (Millimeter)
- **D_s** Spigot Diameter (Millimeter)
- **F_c** Force on Cotter Joint (Newton)
- **L** Load on Cotter Joint (Newton)
- **L_a** Gap between End of Slot to End of Spigot (Millimeter)
- **P** Tensile Force on Rods (Newton)
- **t₁** Thickness of Spigot Collar (Millimeter)
- **t_c** Thickness of Cotter (Millimeter)
- **V** Shear Force on Cotter (Newton)
- **σ_b** Bending Stress in Cotter (Newton per Square Millimeter)
- **σ_c** Crushing Stress induced in Cotter (Newton per Square Millimeter)
- **σ_{c1}** Compressive Stress in Spigot (Newton per Square Millimeter)
- **σ_{cp}** Stress in Spigot (Newton per Square Millimeter)
- **σ_{cso}** Compressive Stress In Socket (Newton per Square Millimeter)
- **σ_t** Tensile Stress (Newton per Square Millimeter)
- **σ_{tso}** Tensile Stress In Socket (Newton per Square Millimeter)
- **σ_{tsp}** Tensile Stress In Spigot (Newton per Square Millimeter)
- **σ_{trod}** Tensile Stress in Cotter Joint Rod (Newton per Square Millimeter)



- T_{CO} Shear Stress in Cotter (Newton per Square Millimeter)
- T_{SO} Shear Stress in Socket (Newton per Square Millimeter)
- T_{SP} Shear Stress in Spigot (Newton per Square Millimeter)
- τ_p Permissible Shear Stress (Newton per Square Meter)



Constants, Functions, Measurements used

- **Constant:** **pi**, 3.14159265358979323846264338327950288
Archimedes' constant
- **Function:** **sqrt**, sqrt(Number)
A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.
- **Measurement:** **Length** in Millimeter (mm)
Length Unit Conversion 
- **Measurement:** **Area** in Square Millimeter (mm²)
Area Unit Conversion 
- **Measurement:** **Pressure** in Newton per Square Meter (N/m²)
Pressure Unit Conversion 
- **Measurement:** **Force** in Newton (N)
Force Unit Conversion 
- **Measurement:** **Stress** in Newton per Square Millimeter (N/mm²)
Stress Unit Conversion 



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