

Docol Tube R8

Name	Unit	Value	Usual name	Temperature dependence
Young Modulus	GPa	200-215	E	Sinking
Poisson ration	1	0.285 ± 0.005	ν	Growing
Shear modulus	GPa	83 ± 2	G, μ	Sinking
Density	Kg/m^3	7850 ± 20	ρ	Sinking
Thermal expansion coefficient	1/K	$1,20\text{E-}05$	α	Growing
Thermal conductivity	W/Km	45 ± 2	λ	Sinking
Specific heat	J/kgK	470 ± 20	C_p	Growing
Resistance	$\mu\Omega\text{m}$	0.2 -0.3		Growing
Structural damping coefficient	1	$7 \cdot 10^{-2}$ to 10^{-3}		
Yield Strength (Min)	N/mm ²	690	$R_{p0,2}$	
Tensile Strength (Min)	N/mm ²	800 - 950	R_m	

