SUS303



SUS303 is a high free-machining austenitic stainless steel in which machinability is improved by adding sulphur to Type 304. While Sulphur addition boosts machining efficiency, it decreases corrosion resistance and slightly lowers toughness. Although the corrosion resistance of grade 303 stainless steel is lower than that of 304, its toughness remains excellent, as with other austenitic grades.

MECHANICAL PROPERTIES		
Hardness	90 HRB Max	
Tensile strength	705 N/mm²	
Yield strength	525 N/mm²	
Elongation	40% Min	
Reduction of Area	59%	

CHEMICAL COMPOSITION	
С	0.15% Max
Si	1.0% Max
Mn	3.0% Max
Р	0.2% Max
S	0.15% Min
Ni	8.0 – 10.0%
Cr	17.0 – 19.0%

APPLICATIONS

Nuts and bolts Screws Gears Aircraft fittings Bushings Shafts