

INCONEL ALLOY 45

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL 45 covers nickel alloy forgings. These alloys are classified into different grades according to their chemical composition. Inconel 45 Alloy covers Ni-Cr-Fe-Si alloy UNS N06045. Alloy 45 is a high-chromium austenitic nickel-chromium-iron alloy with addition of about 3% silicon and 0.10% rare earth elements. The formation of a protective chromium oxide layer, together with a sublayer with a sublayer silicon oxide layer, makes the alloy especially suitable for applications such as in waste incineration and petrochemical facilities.

Chemical Properties

C	Mn	P	S	Si	Cr	Ni	Cu	Ce	Fe
0.05-0.12	1.0 Max	0.02 Max	0.010 Max	2.5-3.0	26.0-29.0	45 Min	0.3 Max	0.03-0.09	21.0-25.0

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
240	620	35

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N06045
En Name NiCr28FeSiCe
W.Nr. 2.4889

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