

Brand name | Conicro® 4023 W

Trade name | Alloy 188

Material No.	EN Designation	UNS	Alloy
2.4683	CoCr22NiW	R30188	188

Description | Alloy 188 / 2.4683 is a heat resistant cobalt-base alloy with nickel and chromium.

Special properties | Excellent mechanical properties up to 1150°C.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.05-0.15	0.20-0.50	1.25	0.02	0.015
Cr %	Ni %	Co %	Fe %	W %
20.0-24.0	20.0-24.0	Rest	≤ 3.00	13.0-16.0
La %				
0.02-0.12				

0.2% Yield strength R_p ≥ N/mm ²	Tensile strength R_m N/mm ²	Elongation A_5 ≥ %	Modulus of elasticity kN/mm ²
380	≥ 860	40	222

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
9.1	405	10.2	0.95

Suitable welding filler materials | 2.4683

Application | Components for furnaces, heat exchangers, components for gas turbines

Available forms for 2.4683 / ALLOY 188

