FAULENBACH SCHMIEDETECHNIK

MATERIAL DATA SHEET

material no.: **1.4876H**
UNS no.: **N08810**
designation: **Alloy 800H**

	ASTM B408/564	VdTÜV Werkstoffblatt 434	DIN EN 10302
Ni	30,0 - 35,0	30,00 - 34,00	30,0 - 32,5
Co, max.		1,00	
Ni + Co		30,0 - 34,0	
Cr	19,0 - 23,0	19,0 - 23,0	19,0 - 22,0
Fe, min.	39,5		
Mn, max.	1,5	1,50	1,50
C	0,05 - 0,10	0,06 - 0,10	0,030 - 0,08
Cu, max.	0,75	0,75	0,50
Si, max.	1,0	1,00	0,70
S, max.	0,015	0,010	0,010
Al	0,15 - 0,60	0,15 - 0,60	0,20 - 0,50
Ti	0,15 - 0,60	0,15 - 0,60	0,20 - 0,50
Al + Ti, max.		0,7*	
P, max.		0,015	0,015
Nb			≤ 0,10

* design temperature < 700 °C

MECHANICAL PROPERTIES

solution annealed	bar / forging	bar / forging	bar / forging
	ASTM B408 / ASTM B564		D ≤ 160 mm
R_m (MPa)	≥ 448	450 - 700	500 - 750
$R_{p\ 0,2}$ (MPa)	≥ 170	≥ 170	≥ 170
$R_{p\ 1,0}$ (MPa)		≥ 200	
A (%)	≥ 30	l ≥ 35, q/t ≥ 30	≥ 35
grain size	≤ 5	≤ 4	

All information are supplied without liability.

Faulenbach Schmiedetechnik GmbH
Robert-Koch Straße 6
D-51674 Wiehl

Phone: +49(0)2261 97461-0
Fax: +49(0)2261 97461-9
E-Mail: info@faulenbach-gmbh.de
Internet: www.faulenbach-gmbh.de

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