BACA GAZI FİZİKSEL ÖZELLİKLERİ

SICAKLIK	ÖZGÜL KÜTLE	İLETİM KATSAYISI	ÖZGÜL ISI		DİNAMİK VİSKOZİTE	KİNEMATİK VİSKOZİTE	ISIL YAYINIM	ISIL GENLEŞME	PRANDLE
T	ρ	λ	c_p	c_v	$\mu \, 10^6$	$\nu \, 10^4$	a	$\beta \, 10^3$	Pr
[°C]	[kg/m³]	[kcal/mh°C]	[kcal/kg°C]	[kcal/Nm³ °C]	[kgs/m²]	[m²/s]	[m²/h]	[1/°K]	
0	1.295	0.0196	0.249	0.323	1.611	0.122	0.0608	3.66	0.72
100	0.950	0.0270	0.256	0.331	2.081	0.215	0.1109	2.68	0.69
200	0.748	0.0345	0.262	0.340	2.499	0.328	0.1760	2.11	0.67
300	0.617	0.0417	0.268	0.348	2.876	0.458	0.2516	1.75	0.65
400	0.525	0.0491	0.275	0.357	3.233	0.604	0.3395	1.49	0.64
500	0.457	0.0565	0.283	0.367	3.549	0.763	0.4360	1.29	0.63
600	0.405	0.0639	0.290	0.376	3.865	0.936	0.5432	1.15	0.62
700	0.363	0.0712	0.296	0.384	4.151	1.121	0.6617	1.03	0.61
800	0.330	0.0788	0.302	0.392	4.426	1.318	0.7909	0.93	0.60
900	0.301	0.0861	0.309	0.400	4.681	1.525	0.9288	0.85	0.59
1000	0.275	0.0939	0.312	0.405	4.936	1.743	1.0922	0.79	0.58
1100	0.257	0.1012	0.317	0.410	5.171	1.971	1.2438	0.73	0.57
1200	0.240	0.1087	0.321	0.415	5.405	2.210	1.4126	0.68	0.56

V. P. Isachenko, V. A. Osipova, A. S. Sukomel; HEAT TRANSFER, Mir Publishers Moscow 1977

$$\rho = 1 / (4 \times 10^{-09} \, T^2 + 0.0028 \, T + 0.7701)$$

$$\lambda = 8 \times 10^{-10} \, T^2 + 7.32 \times 10^{-05} \, T + 0.019683$$

$$c_p = -2.28 \times 10^{-11} \, T^3 + 2.66 \times 10^{-08} \, T^2 + 5.99 \times 10^{-05} \, T + 0.249233$$

$$c_v = -2.95 \times 10^{-11} \, T^3 + 3.45 \times 10^{-08} \, T^2 + 7.76 \times 10^{-05} \, T + 0.322757$$

$$\mu = 1 \times 10^{-6} \times (-9.8 \times 10^{-07} \, T^2 + 0.00427 \, T + 1.65603)$$

$$\nu = 1 \times 10^{-4} \times (6.38 \times 10^{-07} \, T^2 + 0.00991 \, T + 0.11107)$$

$$a = 5.38 \times 10^{-07} \, T^2 + 0.000486 \, T + 0.058352$$

$$Pr = -1.1 \times 10^{-10} \, T^3 + 2.55 \times 10^{-07} \, T^2 - 0.00028 \, T + 0.71753$$