

## 12. PHYSICAL PROPERTIES OF METAL GASKET MATERIALS

AISI / ASTM	Individual name	Material No.	DIN 17 006	Hardness HB	Tensile strenght [N/mm <sup>2</sup> ]	Tensile strenght [N/mm <sup>2</sup> ] (d0,2)	Temperature [°C]		Density [g/mm <sup>3</sup> ]
							min.	max.	
<b>METAL</b>									
<b>A 570 Gr. 36</b>	Lov carbon steel	1.0038	RSt 37-2	100-130	370-450	220	-40	+ 500	7.85
<b>A 619 (100)</b>	Steel sheet	1.0333	Ust 13; St 13; S t3	90-120	270-370	250	-40	+ 500	7.85
<b>Soft-Iron</b>	Soft-Iron	1.1003	M2 / Armco	90-110	270-350	190	-60	+ 450	7.85
<b>430</b>	Stainless steel	1.4016	X6 Cr. 17	130-170	450-600	270	-20	+ 350	7.70
<b>304 (304H)</b>	Stainless steel	1.4301	X5 CrNi 18 10	130-180	500-700	195	-200	+ 550	7.90
<b>304L</b>	Stainless steel	1.4306	X2 CrNi 19 11	130-170	460-680	180	-270	+ 550	7.90
<b>316</b>	Stainless steel	1.4401	X5 CrNiMo 17 12 2	130-180	500-670	205	-200	+ 550	7.95
<b>316L</b>	Stainless steel	1.4404	X2 CrNiMoTi 17 13 2	120-170	490-690	190	-200	+ 550	7.95
<b>316L</b>	Stainless steel	1.4435	X2 CrNi 18 14 3	120-170	490-690	190	-200	+ 550	7.98
<b>321</b>	Stainless steel	1.4541	X6 CrNiTi 18 10	130-190	500-730	205	-270	+ 550	7.90
<b>347</b>	Stainless steel	1.4550	X6 CrNiNb 18 10	130-190	510-740	205	-200	+ 550	7.90
<b>316Ti</b>	Stainless steel	1.4571	X6 CrNiMoTi 17 12 2	130-190	500-730	215	-270	+ 550	7.98
<b>309</b>	Stainless steel	1.4828	X 15 CrNiSi 20 12	130-220	500-750	230	-110	+ 800	7.90
<b>B408, B 409</b>	Incoloy 800	1.4876	X 10 NiCrAlTi 32 20	130-220	500-750	210	-110	+ 850	8.00
<b>NON-METAL</b>									
-	Cooper	2.0090	SF-CU	55-65	200-250	90	-270	+ 400	8.94
<b>Brass</b>	Messing Ms 63	2.0321	CuZn 37	60-80	290-370	140	-200	+ 350	8.44
-	Plumbum 99,9	2.3040	Pb 99,9	4	12	-	-250	+ 200	11.50
-	Nickel 99,6	2.4060	Ni 99,6	100-150	340-400	140	-60	+ 600	8.90
<b>Alloy 200</b>	Nickel 99,2	2.4066	Ni 99,2	100-150	380-450	160	-60	+ 600	8.90
<b>Alloy 400</b>	Monel 400	2.4360	NiCu 30 Fe	100-130	450-580	200	-60	+ 500	8.88
<b>Alloy 600</b>	Inconel 600	2.4816	NiCr 15 Fe	140-200	550-800	200	-60	+ 600	8.42
-	Aluminium 99,5	3.0255	Al 99,5	20-25	70-80	509	-250	+ 350	2.70
-	Aluminium alloy	3.3315	AlMg 1	25-35	90-110	60	-250	+ 300	2.70
<b>B 348 Gr. 1</b>	Titan I	3.7025	Ti	110-140	290-410	180	-60	+ 300	4.50
<b>B 348 Gr. 2</b>	Titan II	3.7035	Ti	120-160	390-540	250	-60	+ 350	4.50

