

PROPERTIES OF DIFFERENT DIE CAST ALLOYS

	ZP 0400	ZP 0410	ZP 0430	ZP 0810	Al226	Al230	Al231	Al239	Silafont-36	AZ91	AM60	AM50
	ZINC				ALUMINIUM				MAGNESIUM			
MECHANICAL PROPERTIES												
Ultimate tensile strength [Mpa]	280	330	335	370	at least 240	at least 240	at least 240	at least 240	250 - 290	240	225	210
Proof stress [Mpa]	200	250	270	220	at least 140	at least 130	at least 140	at least 140	120 - 150	160	130	125
Elongation after fracture [%]	10	5	5	8	< 1	at least 1	at least 1	at least 1	5 - 10	3	8	10
Hardness Brinell [HBS]	83	92	102	100	at least 80	at least 60	at least 70	at least 70	at least 75	70	65	60
PHYSICAL PROPERTIES												
Density [g/cm ³]	6,7	6,7	6,8	6,3	2,75	2,65	2,65	2,65	2,64	1,81	1,8	1,77
Thermal conductivity 20°C [W/m·K]	113	110	119	115	110 - 120	130 - 160	120 - 150	130 - 150	139 - 168	51	61	65
Linear expansion coefficient [µm/m·K]	27	27	27	23	21	20	20	21	21	26	26	26
Electrical conductivity [MS/m]	26	26	26	28	13 - 17	16-22	15-20	16-21	21-26	6,6	-	9,1

Source: Kopf Holding GmbH
All data without guarantee.