



Berkenhoff GmbH

PRODUCT PARAMETERS

Grade		originAl®4043	originAl®4047	originAl®5087	originAl®5183	originAl®5356	originAl®5554	
Standard Designation	ISO 18273	S Al 4043 (AlSi5)	S Al 4047 (AlSi12)	S Al 5087 (AlMg4.5MnZr(A))	S Al 5183 (AlMg4.5Mn0.7(A))	S Al 5356 (AlMg5Cr(A))	S Al 5554 (AlMg2.7Mn)	
	DIN 1732	3.2245	3.2285	3.3546	3.3548	3.3556	3.3538	
	AWS A5.10	ER 4043	ER 4047	ER 5087	ER 5183	ER 5356	ER 5554	
Chemical Composition	Si	4.5-6.0	11-13	0.25	0.4	0.25	0.25	
	Fe	0.8	0.8	0.4	0.4	0.4	0.4	
	Cu	0.3	0.3	0.05	0.1	0.1	0.1	
	Mn	0.05	0.15	0.7-1.0	0.5-1.0	0.05-0.2	0.5-1.0	
	Mg	0.05	0.1	4.5-5.2	4.3-5.2	4.5-5.5	2.4-3.0	
	Cr	\	\	0.05-0.25	0.05-0.25	0.05-0.2	0.05-0.2	
	Zn	0.1	0.2	0.25	0.25	0.1	0.25	
	Ti	0.2	\	0.15	0.15	0.06-0.2	0.05-0.2	
	Zr	\	\	0.1-0.2	\	\	\	
	Al	Balance	Balance	Balance	Balance	Balance	Balance	
	Be	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	
Others	Individual Value	0.05	0.05	0.05	0.05	0.05	0.05	
	Total	0.15	0.15	0.15	0.15	0.15	0.15	
Physical Properties (O)	φ2.58 (Tol: +0.09-+0.2)	Tensile Strength/MPa	90-150	110-190	250-360	270-360	250-350	180-280
		Elongation/%	≥10	≥12	≥15	≥10	≥10	≥15
	φ6.0 (Tol: +0.3)	Tensile Strength/MPa	90-150	110-190	260-340	250-340	250-340	190-290
		Elongation/%	≥10	≥12	≥15	≥10	≥10	≥10
Physical Properties (F)	φ2.58 (Tol: +0.09-+0.2)	Tensile Strength/MPa	170-250	170-260	405-515	390-500	375-485	280-400
		Elongation/%	≥1	≥1	≥1	≥1	≥1	≥1
	φ6.0 (Tol: +0.3)	Tensile Strength/MPa	180-280	230-320	330-430	310-420	300-410	240-340
		Elongation/%	≥5	≥5	≥5	≥5	≥5	≥5
Packaging								
	Coil 1300*1300*150mm			Spool 1000mm 1200*800*130mm				
Net Weight		15000KG±100KG			500KG±50KG			
Process Route		φ6.0 Continuous-Properzi Continuous casting and rolling						
		φ2.58 Continuous-Properzi Micro-rolling						