

Aluminium base materials, the alloy designation, their application		
International registration	Alloy	Typical applications
1050A, 1200	Al99,5 Al99,0	Body panels for tanks used for chemical and food industry, dairy industry, breweries, packaging industry, household appliances, electronic industry
3103	AlMn1	Buildings, heat exchangers, roof coverings
5052, 5251	AlMg2,5 AlMg2Mn0,3	Tanks, body panels and construction in contact with seawater and -air
5083	AlMg4,5Mn	Shipbuilding, tanks and tubes for transportation liquid gases, armour plate
5086	AlMg4Mn	Shipbuilding and car bodies
5454	AlMg2,7Mn	Shipbuilding, car bodies, transportation industry
6005A	AlMgSi0,7	General construction grade, roof constructions, light poles, pipelines
6060, 6063	AlMgSi0,5	Building materials, windows, doors
6061	AlMg1SiCu	General construction grade for dynamic stressed constructions, bridges
6082	AlMgSi1	Car body industry
7020	AlZn4,5Mg1	Non-marine applications, cars, armour plate

Filler metals for welding Aluminium								
No.	HILCO	AWS Spec.	DIN (old designation)	Werkstoffnr.	Available as			
					SMAW	GMAW	GTAW	OAW
1	AL 99,5	ER 1100	SG-Al 99,5	3.0259	•	•	•	•
2	AL Si5	ER 4043	SG-AlSi 5	3.2245	•	•	•	•
3	AL Si12	ER 4047	SG-AlSi 12	3.2585	•	•	•	•
4	AL Mg3 on request	ER 5754	SG-AlMg 3	3.3536	(•)	•	•	
5	AL Mg4,5Mn	ER 5183	SG-AlMg 4,5 Mn	3.3548		•	•	
6	AL Mg5	ER 5356	SG-AlMg 5	3.3556		•	•	

Consumable selector							
Base materials	7020	6005A, 6060, 6061, 6063, 6082	5083	5086	5454	5052, 5251	1050, 1200, 3103
1050, 1200, 3103	2	6, 2	6	6	5, 2	5, 2	1
5052, 5251	5	5, 2	6	6	6	6	
5454	5	6	6	6	6		
5086	5	6	6	6			
5083	5	6	5				
6005A, 6060, 6061, 6063, 6082	5, 2	6					
7020	5						

**Notes:** for welding alloy 7020 it is possible to use filler metal no. 6 instead of no. 5.  
For workpieces subject to anodic treatment we recommend filler metal no. 6.