



REFERANS METAL: MORE THAN 25 YEARS THE ONLY COMPANY IN TURKEY TO EXPORT AEROSPACE AND COMMERCIAL MATERIALS TO FOUR DIFFERENT CONTINENTS.

- The first company to produce and supply aluminium alloy at AMS standards in Turkey,
- The first company in Turkey to produce and export aluminium alloy at AMS standards to abroad, including the US and Western Europe,
- The first company to produce and supply material as a project partner in Turkish aerospace industry,
- The first material company in Turkey to produce and supply machined aluminium alloy,
- The first company in Turkey to produce and export aluminium alloys to more than 38 countries,
- The first material company in Turkey to develop and offer engineering solutions in aerospace industry as a project partner,
- The first company to supply grinded material at +0.001 (one per thousand) tolerance, in addition to normal cut-size material supply,
- *The first and only company to offer The "Original Material Supplying" in Europe.*

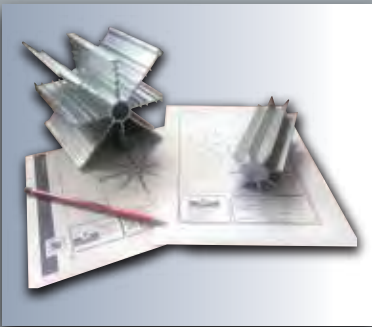
Products and Production

We produce aluminum bars, tubes, profiles and supply plates, sheets,. Our products are available in AMS and Commercial standard. We also produce special profiles in 2xxx, 7xxx, 5xxx, 6xxx alloys. Because different sectors require different engineering values and solutions, we do share our already deep aerospace material knowledge with other industrial projects.



Shipping

We do export and deliver our materials more than 40 countries all over the world for 25 years. To make our shipping service faster, we produce and keep our materials stock in Mersin-Turkey and in Bodensee-Switzerland except four different located warehouses in Istanbul. If you make contact with us earlier in daytime, One-day-order-shipping (ODOS) is possible.



Sawing/Cut-to-Size

We supply our produced materials to different stockholders and especially end-users. We use eleven sawing machines and cnc routers to cut materials sizes up to machining tolerances. Even we cut and supply 1 kg material, no MOQ. After high tolerance sawing (+0,5) or normal sawing we can finalize the materials as semi-finished plates or sheets to reduce the cost of machining on our client side. We produce specific profiles/extrusions and specific materials which requirements are needed after receiving drawings and data's. Our aerospace, metallurgy and mechanical engineers give technical assistant before starting projects and orders.

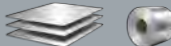


AS 9120 Rev B
AS 9100 Rev D
ISO 9001:2015

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CONTINENTS..."*



Stock Sizes

ALUMINUM ALLOY	 SHEET / COILS Thickness Ranges (mm.)	 BAR Ranges (mm.)	 TUBE / PROFILE Ranges (mm.)	 PLATE THICKNESS Ranges (mm.)
1050	0,5-8	10-200	10-300	8-400
1100	0,5-8	10-200	10-100	10-100
2011	-	20-250	20-200	-
2014/2014A	-	20-250	20-200	2-100
2017/2017A	1-8	20-200	20-100	10-200
2024	0,8-6	20-450	20-200	2-100
2618A	1-8	20-250	-	8-100
5052	2-8	-	-	-
5083	1-8	20-250	20-100	10-700
5086	1-8	20-250	-	10-700
5754	1-8	20-250	20-100	10-100
6013	1-8	8-250	-	-
6061	0,8-8	8-300	10-250	10-300
6082	0,8-8	8-300	10-250	10-300
7010	-	20-200	-	10-200
7050	1-8	20-200	-	10-200
7075	0,8-8	20-250	20-100	10-250
7175	-	20-250	-	10-150
7475	1-8	20-200	-	10-150

Services and Sectors



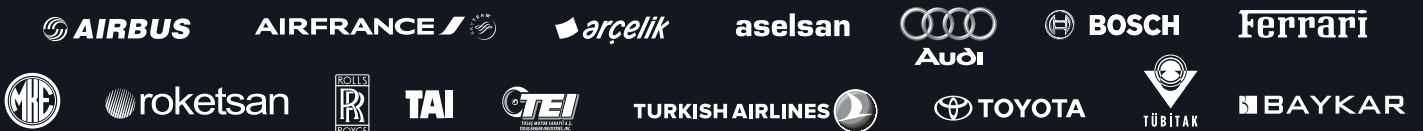
More than 168 different aluminum alloys are keeping as stock in our different 4 warehouses. Having and producing so many kinds of aluminum alloys provide us many different technical alternative ways to make an **optimum solution** of any project.

That's why Referans Metal had established **the original material supplying** department in industry as a first time. And as all Turkish industrial companies know that the first milled aluminum plate was produced by Referans Metal 25 years ago. We produce and supply also aluminum bars and plates in AMS standard as machined.

Analyzing project, engineering the values, choosing the correct material, machining the material... : This is unique and best qualified way for many companies especially which are working in aerospace, robotics, defense, energy and machinery.



References



TUBE

Alloy	Temper	Specification
1100	H14	AMS 4062
1200	H14/H16	BS L54
2014A	T6	EN 2387
	T6	BS L63
	T4	BS L105
2024	0/T3/T4	EN 2701
	0/T3/T4	AIR 9048,9049
	0/T3/T4	WL 3.1354
	0/T3/T4	AMS 4088
	T3	AMS -WWT-700/3
5052	0	WL 3.3524
	0	AMS 4071
5251	0	BS L56
6061	T6	EN 2392
	T4	EN 3557
	T4	EN 2391
	T4	AIR 9048,9049
	T6	AIR 9048,9049
	T4	WL 3.3214
	T6	WL 3.3214
	T4	AMS 4081
	T4/T6	AMS-MIL-T-7081
	T6	AMS 4082
	T6	AMS-WWT-700/6
	T6	AMS 4083
6082	T4/T6	EN 2389/2390
	T4/T6	BS L114
7075	T6	AIR 9048,9049
	T6	AMS 4154

BAR

Alloy	Temper	Specification
2011	T3, T4, T8, T451	AMS QQ-A-225/3
2014A	T4511	EN 2100, EN 2634*
	T6	EN 2324, EN 2639
	T6511	EN 2384, EN 2635*
	T4511	BS L102
	T6511	BS L168
	M	BS L168
	M, T6	BS L168
2017	T4	AMS 4118
2024	T3, T4, T8, T451	EN 2321, EN 2638*
	0,T3, T42, T3510, T3511, T81, T8510, T8511	EN 2318, EN 2633*
		EN 3550, EN 3447
	T3	AIR 9049
	T351, T4	AIR 9049
	T351, T4	WL 3.1354
	T3	AMS 4152
	0,T3, T42, T3510, T3511, T81, T8510, T8511	AMS QQ-A-200/3
	T351, T4	AMS 4120
	0,T4, T6, T36, T42, T62, T351, T851	AMS QQ-A-225/6
2031	M, T6	BS L83
2124	T851	AMS 4101
2618A	T6511	EN 3553
	T6511	DTD 5014A
	M, T4, T6	DTD 5014A
5083	H111	AMS QQ-A-200/4
	H111	3.3547
5086	H111	AIR 9049
	H111	AMS QQ-A-200/50
5251	M	BS L44
5754	H111	A-G3M
6061	T4	EN 3342
	T6, T651	AIR 9049
	T4	AMS 4116
	T6, T651	AMS 4117
	0,T4, T6, T42, T62, T451, T651	AMS QQ-A-225/8
	T6511	AMS QQ-A-200/8
6082	T6, T6511	EN 2326, EN 2636*
		EN 4273, EN 4274*
	T6, T6511	BS L111
7010	T74511	EN 3337
7017	M	DTD 150
7050	T74511	EN 3338*
	T74511	AMS 4342
7075	T7351	EN 2128
	T6511	EN 2394, EN 2631*
	T73, T73511	EN 2316, EN 2637*
	T73511	EN 2127, EN 2632
	T651, T6	AIR 9048
	T73511	AIR 9049
	T651, T6	BS L95
	T73, T73511	BS L160
	T7351	AMS 4124
	T7351	AMS QQ-A-225/9
	T651, T6	AMS 4123
	T651, T6	AMS QQ-A-225/9
	T6511	AMS QQ-A-225/11
	T73, T73511	AMS QQ-A-225/9
	0, T6, T62, T6510, T6511, T73, T73510, T73511	AMS QQ-A-200/11
	T73511	AMS 4167
7175	T73511	EN 4293





Tel : +90 212 671 57 71 (3H)
Faks : +90 212 671 57 73
E-mail : info@referansmetal.com

İkitelli Organize San. Bölgesi
Eskoop San. Sit. C8 Blok No: 522-524
Başakşehir 34306 İstanbul / Türkiye

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SHEETS

Alloy	Temper	Specification
1200	H4/0	BS L16/17
2014	F(T42) / (T62) /T4/T6/T451	AIR 9048.010./030/020/040/050
2014A	T4, T6	3.1254
	T4/T6/T4/T6	BS L156/157/158*/159*
	T6(T62)/T4(T42)	EN 2089/2395
2014 Clad	0,T4, T6	AMS QQ-A-250/3
	F(T42) / (T62) /T4/T6	AIR 9048.060./080/070/090
2014A Clad	T3/F(T42), T4/T6	BS L163/164/165
	F(T42), T4/T6	BS L166*/167*
	T6(T62)/T4(T42)	EN 2087/2088
2017	T451	AMS 4110
2024	0, T3	AMS QQ-A-250/4
	T4 forming quality	EN 4101
	F(T42)/T3/T351	AIR 9048.100./110/120
	0(T42), T3	3.1354
2024 Clad	0, T3	AMS QQ-A-250/5
	F(T42)/T3	AIR 9048.130/140
	0(T42), T3	3.1364
	T3/F(T42)	BS L109/110
2024 Clad cmg	T3/T4/T4(T42)/T351	EN 2090/2091/2703/4001
2024 cmg	T81/T3/T4(T42)/T351	EN 3474/3997/3998/3999
2219	0(T62), T31(T81), T37(T87)	AMS QQ-A-250/30
2219 Clad	0	AMS 4096
2618A	H28(T62)	AIR 9048.150
2618A Clad	H28(T62)	AIR 9048.170
	T6	DTD 5070
3003	0, H14	AMS QQ-A-250/2
3103	H6/H2/0	BS L59/60/61
5086	0, H111/H22, H32	AIR 9048.190/200
5251	0/H6	BS L80/81
6013	T4	AMS 4347
6061	0,T4, T6	AMS QQ-A-250/11
	0,H111(T42)/T4/0,H111(T62)/T6	AIR 9048.210/220/230/240
	0(T62), T6	3.3214
	T6(T62)/T4(T42)	EN 2694/EN 3341
6082	T4, T6	BS L113
7050	T76/F(T762)	EN 4449/4450
7075	0,T6	AMS QQ-A-250/12
	T76	AMS QQ-A-250/24
	T6/T76	AIR 9048.260/270
	T6	3.4364
	T6(T62)	EN 2696
7075 Clad	0,T6	AMS QQ-A-250/13
	T6	AIR 9048.280
	0(T62), T6	3.4374
	T6	BS L88
	T6(T62)	EN 2902
7075 clad with 7072	T76	AMS QQ-A-250/25
7075 clad with 7011	T76	AMS QQ-A-250/26
7475	T761	AMS 4085
	T76	AIR 9048.290
	T761/F(T762)	EN 2802/3333
7475 Clad	T76	3.4377
	T761	AMS 4100
	T761/F(T762)	EN 2803/3332
7475 spf	0	EN 3335

PLATE

Alloy	Temper	Specification
2014	0/T651	AMS 4028/4029
2014A	T651	BS L93
	T651	DTD 5010
2017	T451	AMS 4110
2024	0/T351	AMS 4035/4037
	0,T351, T851	AMS QQ-A-250/4
	T351	AIR 9048.630
	T351, T851	3.1354
	T351	BS L97
	T351	EN 2419
	T351	EN 6000
2124	T851	AMS 4101
	T351,T851	AMS QQ-A-250/29
	T351	EN 2422
2214	T451/T451(T651), T651	AIR 9048.610/620
	T451, T651	EN 2124
2219	0,T351, T37, T87, T851	AMS QQ-A-250/30
2618A	T351(T851), T851	AIR 9048.640
	T651	3.1924
	T351, T851	EN 2123
5083	0	AMS 4056
	H111	AMS QQ-A-250/6
	H321	AMS QQ-A-250/6
5754	H111	A-G3M
6061	0/T451/T651	AMS 4025/4026/4027
	0,F,T451, T651	AMS QQ-A-250/11
	T451, T651	3.3214
	T651	EN 4213
7010	T7351/T7651/T7451	AMS 4203/4204/4205
	T7451	3.4394
	T7651	DTD 5120
	T7451	DTD 5130
	W51(T7651)/T7451	EN 2684/2687
	T651	EN 4214
7050	T7451/T7651	AMS 4050/4201
	T7451	AIR 9048.740
	T7451	3.4144
	T7451/T7651	EN 3982/3983
7075	0/T651/T7351	AMS 4044/4045/4078
	0,F, T651, T7351	AMS QQ-A-250/12
	T7651	AMS QQ-A-250/24
	T651/T7351/T7351/T7651	AIR 9048.680/690/700/710
	T651, T7351	3.4364
	T651	BS L95*
	T7351	EN 2511
7150	T7751	AMS 4252
7175	T7351	EN 2512
7475	T7651/T651/T7351	AMS 4089/4090/4202
	T7351/T7651	AIR 9048.720/730
	T7351	3.4384





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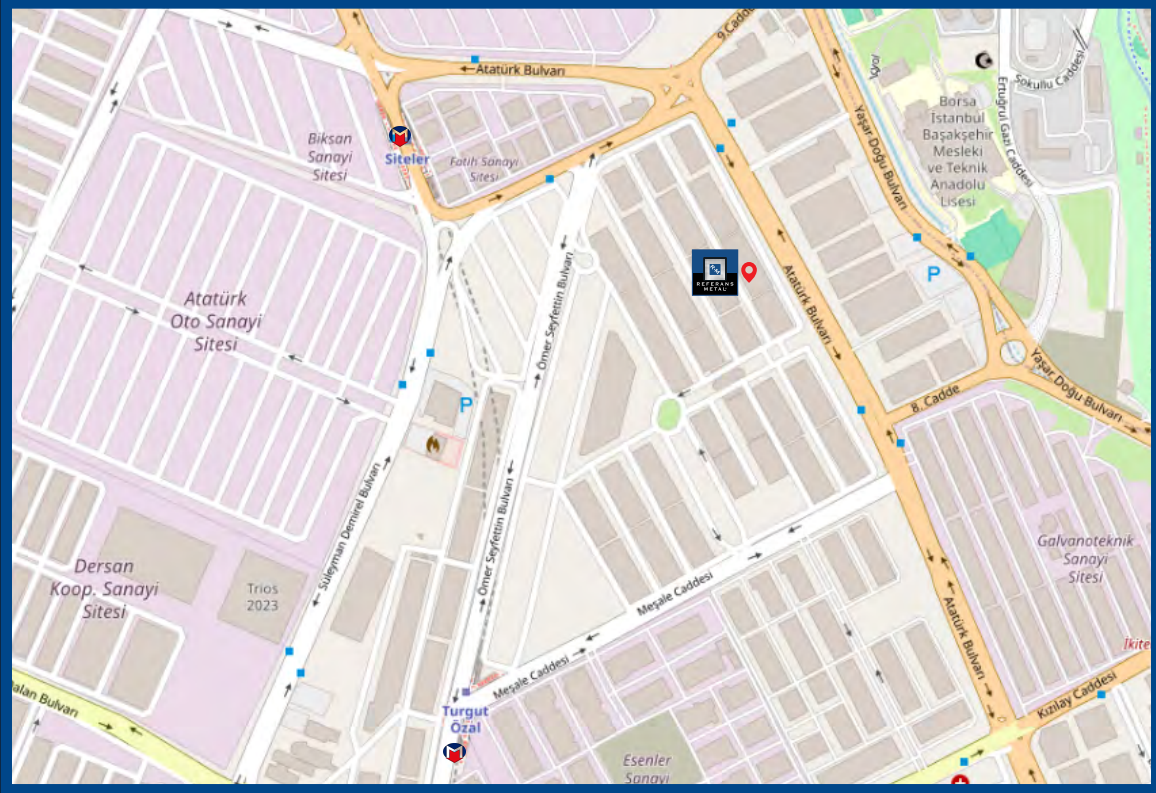
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Tel : +90 212 671 57 71 (3H)
Faks : +90 212 671 57 73
E-mail : info@referansmetal.com

İkitelli Organize San. Bölgesi
Eskoop San. Sit. C8 Blok No: 522-524
Başakşehir 34306 İstanbul / Türkiye

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İkitelli Organize San. Bölgesi
Eskoop Sanayi Sitesi
C8 Blok No:522-524
Başakşehir 34306 İstanbul

Tel : +90 212 671 57 71 (3H)
Faks : +90 212 671 57 73
E-mail : info@referansmetal.com

