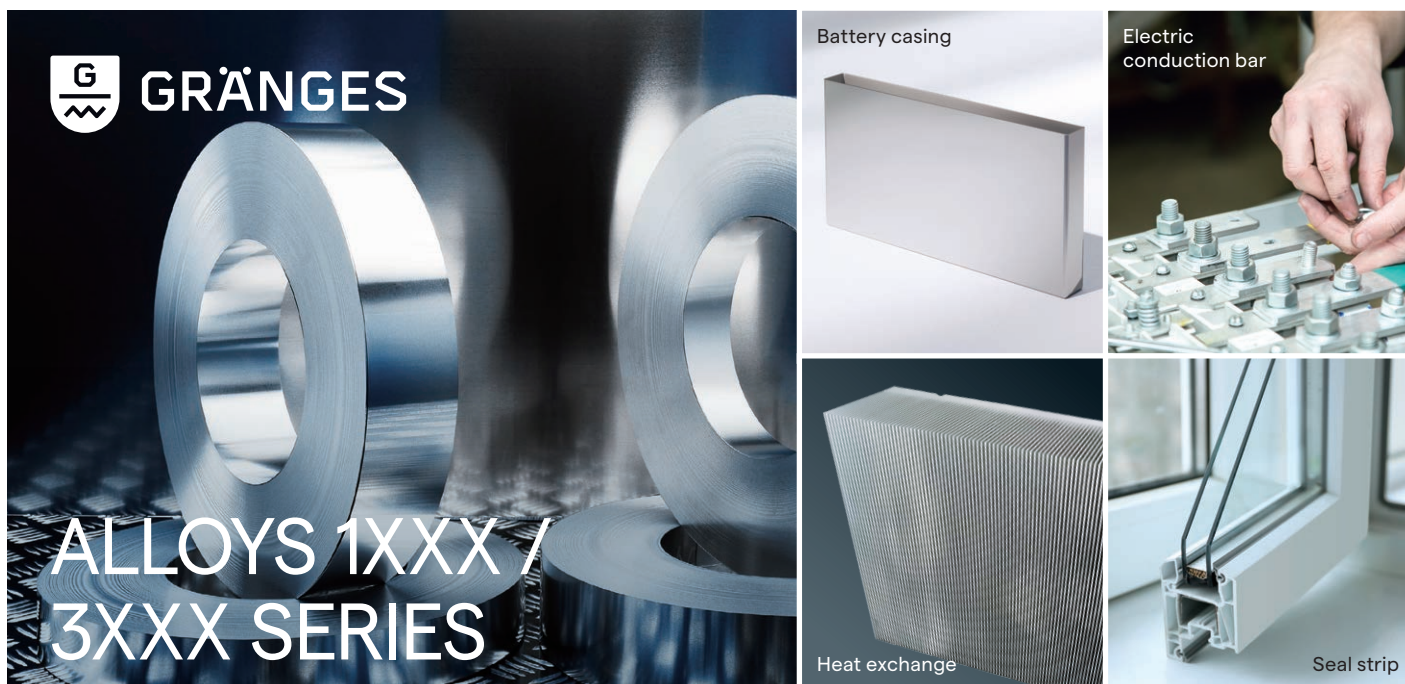




CHEMICAL COMPOSITION

ALLOY	Si [%]	Fe [%]	Cu [%]	Mn [%]	Mg [%]	Zn [%]	Al[%]
1060	0.25	0.35	0.05	0.03	0.03	0.05	99.60
3003	0.6	0.7	0.05~0.20	1.0~1.5	–	0.10	Rem.
3004	0.30	0.7	0.25	1.0~1.5	0.8~1.3	0.25	Rem.
3005	0.6	0.7	0.30	1.0~1.5	0.20~0.6	0.25	Rem.

ALLOYS USABLE FEATURES

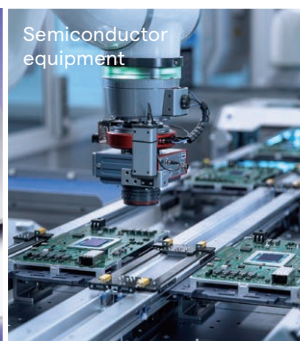
ALLOY	STRENGTH	CORROSION RESISTANCE	WELDABILITY	ANODIZING
1060	Sufficient	Very Good	Very Good	Very Good
3003	Sufficient	Very Good	Very Good	Sufficient
3004	Very Good	Very Good	Very Good	Sufficient
3005	Good	Very Good	Very Good	Sufficient

DELIVERY TEMPER

ALLOY	F/H112	H111	H12	H14	H16	H18	H22	H24	H26
1060	■	■	■	■	■	■	■	■	■
3003	■	■	■	■	■	■	■	■	■
3004	■	■	■	■	■	■	■	■	■
3005	■	■	■	■	■	■	■	■	■

SPECIFICATIONS AND DIMENSIONS

PRODUCT	THICKNESS [mm]	WIDTH [mm]	LENGTH[mm]	ID [mm]	CORE (Yes/No)	MAX.OD [mm]
Hot Rolled Coil	5~12	1070~2100 (raw edge)	–	Ø605	No	≤ 2400
Hot Rolled Plate	6~12, 15~240	≤ 2000	≤ 10000	–	–	–
Cold Rolled Coil	0.15~0.5	16~1500	–	Ø150, Ø200, Ø250, Ø300, Ø400, Ø500	Yes	≤ 1800
	0.5~3	30~1550	–	Ø300, Ø400, Ø500	Yes	≤ 1800
Cold Rolled Plate	0.5~3	≤ 1550	≤ 10000	–	–	–



ALLOYS 5XXX SERIES

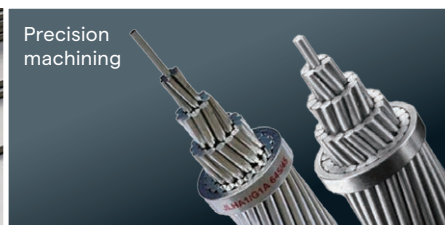
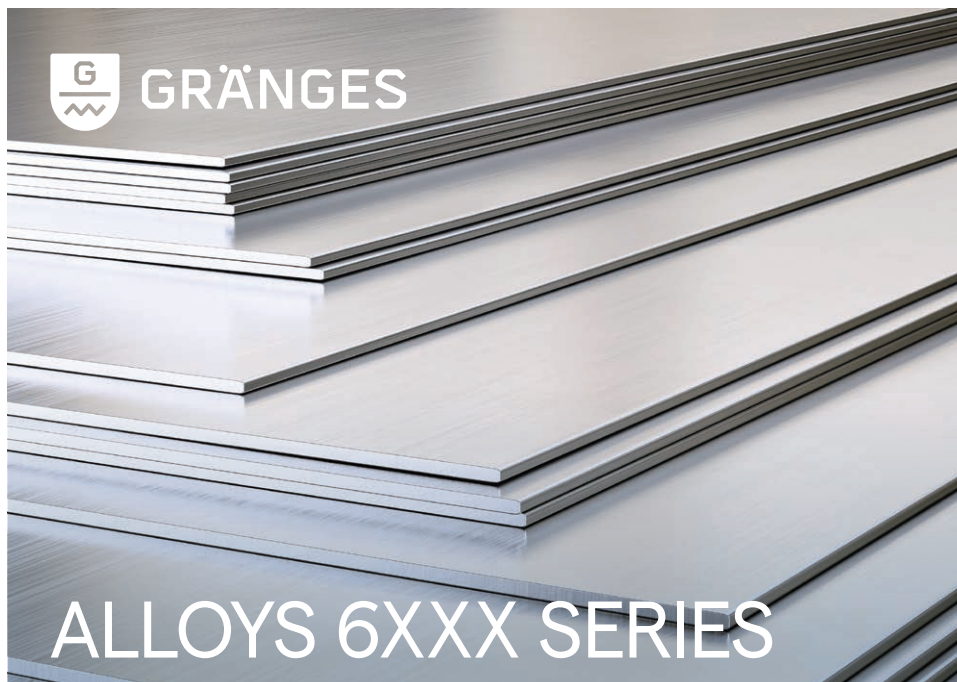
CHEMICAL COMPOSITION								
ALLOY	Si [%]	Fe [%]	Cu [%]	Mn [%]	Mg [%]	Cr [%]	Zn [%]	Al[%]
5005	0.30	0.7	0.20	0.20	0.50~1.1	0.10	0.25	Rem.
5052	0.25	0.40	0.10	0.10	2.2~2.8	0.15~0.35	0.10	Rem.
5754	0.40	0.40	0.10	0.50	2.6~3.6	0.30	0.20	Rem.
5083	0.40	0.40	0.10	0.40~1.0	4.0~4.9	0.05~0.25	0.25	Rem.

ALLOYS USABLE FEATURES				
ALLOY	STRENGTH	CORROSION RESISTANCE	WELDABILITY	ANODIZING
5005	Sufficient	Very Good	Good	Very Good
5052	Good	Very Good	Good	Good
5754	Good	Very Good	Good	Good
5083	Very Good	Very Good	Sufficient	Sufficient

DELIVERY TEMPER							
ALLOY	F/H112	O/H111	H14	H16	H32	H34	H22
5005	■	■	■	■	■	■	■
5052	■	■	■	■	■	■	■
5754	■	■	■	■	■	■	■
5083	■	■	■	■	■	■	■

SPECIFICATIONS AND DIMENSIONS							
PRODUCT	ALLOY	THICKNESS [mm]	WIDTH [mm]	LENGTH[mm]	ID [mm]	CORE (Yes/No)	MAX.OD [mm]
Hot Rolled Coil	5005, 5052, 5252, 5754	5~12	1070~2100 (raw edge)	—	Ø605	No	≤ 2400
	5083	5~12	1070~1720 (raw edge)	—	Ø605	No	≤ 2400
Hot Rolled Plate	5052, 5754	6~12, 15~240	≤ 2000	≤ 10000	—	—	—
	5083	6~8, 15~240	1000~1600	≤ 10000	—	—	—
Cold Rolled Coil	5XXX	0.15~0.5	16~1500	—	Ø150, Ø200, Ø250, Ø300, Ø400, Ø500	Yes	≤ 1800
		0.5~3	30~1550	—	Ø300, Ø400, Ø500	Yes	≤ 1800
Cold Rolled Plate	5XXX	0.5~3	≤ 1550	≤ 10000	—	—	—

*Please contact the manufacturer for details about alloys, delivery tempers and packaging, contact: Info.asia@granges.com



ALLOYS 6XXX SERIES

CHEMICAL COMPOSITION								
ALLOY	Si [%]	Fe [%]	Cu [%]	Mn [%]	Mg [%]	Cr [%]	Zn [%]	Al[%]
6063	0.20~0.6	0.35	0.10	0.10	0.45~0.9	0.10	0.10	Rem.
6061	0.40~0.8	0.7	0.15~0.40	0.15	0.8~1.2	0.04~0.35	0.25	Rem.
6082	0.7~1.3	0.5	0.10	0.40~1.0	0.6~1.2	0.25	0.20	Rem.

ALLOYS USABLE FEATURES				
ALLOY	STRENGTH	CORROSION RESISTANCE	WELDABILITY	ANODIZING
6063	Sufficient	Very Good	Good	Very Good
6061	Good	Sufficient	Good	Good
6082	Very Good	Good	Sufficient	Sufficient

DELIVERY TEMPER			
ALLOY	F/H112	T4/T451	T6/T651
6063	■	■	■
6061	■	■	■
6082	■	■	■

SPECIFICATIONS AND DIMENSIONS						
PRODUCT	THICKNESS [mm]	WIDTH [mm]	LENGTH[mm]	ID [mm]	CORE (Yes/No)	MAX.OD [mm]
Hot Rolled Coil	5~12	1070~2100 (raw edge)	–	Ø605	No	≤ 2400
Hot Rolled Plate	6~12, 15~240	≤ 2000	≤ 10000	–	–	–
Quenched plate - dark grey surface	6~12, 15~160	≤ 1540	≤ 10000	–	–	–
Quenched plate - brush polishing surface	6~12, 15~160	1000~1540	1700~6000	–	–	–
Cold Rolled Coil	0.15~0.5	16~1500	–	Ø150, Ø200, Ø250, Ø300, Ø400, Ø500	Yes	≤ 1800
	0.5~3	30~1550	–	Ø300, Ø400, Ø500	Yes	≤ 1800
Cold Rolled Plate	0.5-3	≤ 1550	≤ 10000	–	–	–



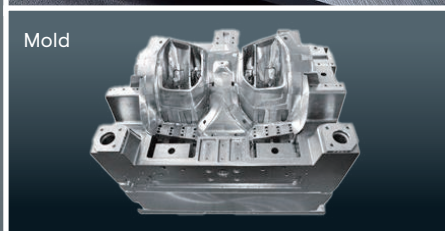
GRANGES

ALLOYS 2XXX / 7XXX SERIES

Precision
machining



Mold



Precision parts



CHEMICAL COMPOSITION

ALLOY	Si [%]	Fe [%]	Cu [%]	Mn [%]	Mg [%]	Cr [%]	Zn [%]	Al[%]
2A12	0.50	0.50	3.8~4.9	0.30~0.9	1.2~1.8	–	0.30	Rem.
2024	0.50	0.50	3.8~4.9	0.30~0.9	1.2~1.8	0.10	0.25	Rem.
7075	0.40	0.50	1.2~2.0	0.30	2.1~2.9	0.18~0.28	5.1~6.1	Rem.
7204 (7N01)	0.3	0.35	0.20	0.20~0.7	1.0~2.0	0.3	4.0~5.0	Rem.

ALLOYS USABLE FEATURES

ALLOY	STRENGTH	CORROSION RESISTANCE	WELDABILITY	ANODIZING
2A12	Good	Sufficient	Sufficient	Sufficient
2024	Good	Sufficient	Sufficient	Sufficient
7075	Very Good	Sufficient	Sufficient	Sufficient
7204 (7N01)	Good	Sufficient	Sufficient	Sufficient

DELIVERY TEMPER

ALLOY	T4/T451	T351	T6/T651	T7351
2A12	■	■	–	–
2024	■	■	–	–
7075	–	–	■	■
7204 (7N01)	–	–	■	■

SPECIFICATIONS AND DIMENSIONS

PRODUCT	THICKNESS [mm]	WIDTH [mm]	LENGTH[mm]
Quenched plate - dark grey surface	15~160	1500~1540	≤ 10000
Quenched plate - brush polishing surface	15~160	1500~1540	1700~6000

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