

Valbruna is approved by the leading OEMs of the Aerospace and Defense industry

Whether the final application is a small component or a highly sophisticated mechanism, Valbruna represents a reliable partner offering a wide range of highly specialised Aeroval® grades able to meet the most stringent market requirements.

High performance Stainless & Specialty Alloys

	COMMERCIAL NAME	VALBRUNA GRADE	SPECIFICATIONS	MELTING PRACTICES	AVAILABLE HEAT TREATMENTS
PH GRADES	15-5 PH*	Aeroval® V155VAR	AMS 5659 Type 1	EEF + AOD + VAR	Cond. A, H900, H925, H1025, H1075, H1100, H1150
	15-5 PH*	Aeroval® V155	AMS 5659 Type 2	EEF + AOD + ESR	Cond. A, H900, H925, H1025, H1075, H1100, H1150
	17-4 PH*	Aeroval® V174	AMS 5643	EEF + AOD	Cond. A, H900, H925, H1025, H1075, H1100, H1150
	17-4 PH*	Aeroval® V174LCV	AMS 5622 Type 1	EEF + AOD + VAR	Cond. A, H900, H925, H1025, H1075, H1100, H1150
	17-4 PH*	Aeroval® V174	AMS 5622 Type 2	EEF + AOD + ESR	Cond. A, H900, H925, H1025, H1075, H1100, H1150
	PH13-8MO*	Aeroval® V138	AMS 5629 Type 1	VIM + VAR	Cond. A, H950, H1000, H1025, H1050, H1100, H1150
	FV520B*	Aeroval® X154MU/2	BS S143/144/145	EEF + AOD	Solution + Precipitation Treatment
MARTENSITIC GRADES	AISI 440C	Aeroval® CMXC	AMS 5630 AMS 5880	EEF + AOD	Annealing
	AISI 440C VAR	Aeroval® CMXC VAR	AMS 5618	EEF + AOD + VAR	Annealing
	AISI 420	Aeroval® VAL2B	AMS 5621	EEF + AOD	Annealing
	M152	Aeroval® X122MV	AMS 5719	EEF + AOD	Annealing
AUSTENITIC GRADES	AISI 347	Aeroval® AISC	AMS 5646	EEF + AOD	Solution annealing
	AISI 321	Aeroval® AIST	AMS 5645	EEF + AOD	Solution annealing
	AISI 316/316L	Aeroval® APML	AMS 5648 AMS 5653	EEF + AOD	Solution annealing
	AISI 304/304L	Aeroval® AISL	AMS 5639 AMS 5647	EEF + AOD	Solution annealing
	AISI 303	Aeroval® AU188Z	AMS 5640	EEF + AOD	Solution annealing
NICKEL & OTHER ALLOYS	Alloy 625	Aeroval® GL3	AMS 5666	EEF + AOD + ESR	Annealing
	Alloy 625	Aeroval® GL3	AMS 5666	EEF + AOD + VAR	Annealing
	Alloy 718	Aeroval® AV718	AMS 5662	EEF + AOD + 2VAR	Solution annealing
	Alloy 718	Aeroval® AV718	AMS 5663	EEF + AOD + 2VAR	Solution + Precipitation Treatment
	Alloy A286	Aeroval® AN5	AMS 5731 AMS 5734	EEF + AOD + ESR	Solution annealing
	Alloy A286	Aeroval® AN5	AMS 5732 AMS 5737	EEF + AOD + ESR	Solution + Precipitation Treatment
ALLOY STEELS	4340 VAR	Aeroval® VD40VAR	AMS 6414 AMS 6415	EEF + AOD + VAR	Annealing, Normalizing and Tempering
	9310 VAR	Aeroval® VD45PB	AMS 6265	EEF + AOD + VAR	Annealing, Normalizing and Tempering

*Not Valbruna's Trademark

Valbruna produces and distributes worldwide Stainless Steel and Nickel Alloys long products for the Aerospace market.



INGOTS



BILLETS



ROUNDS



FLATS



SQUARES



HEXAGONS



WIRE ROD

Optimized technology for greater performances

Always committed to serve the most challenging markets, Valbruna has always been investing in new equipment and approvals.



REMELTING FURNACES

Valbruna is equipped with both Vacuum Arc Remelting (VAR) and Electroslag Remelting (ESR) technologies. Remelting processes are used to improve the quality of ingots cast from primary melting. This benefits alloy chemistry, minimizing chemical segregation and strongly improving the degree of cleanliness.

These refining methods are also able to improve the microstructure, allowing the material to achieve specific mechanical properties.



HEAT TREATMENT FURNACES

The Heat Treatment department is equipped with several furnaces maintained and inspected according to the AMS2750G pyrometry standard, in order to satisfy the Aerospace Specifications requirements for Heat Treatments.

Valbruna is Nadcap accredited for Heat Treating and approved for BOEING BAC 5619 Specification.

NDT CONTROLS

NDT (Non-Destructive Testing) are carried out by UT (Ultrasonic Testing), ET (Eddy-current Testing), MT (Magnetic particle Testing), PT (Dye penetrant Testing) and VT (Visual Testing) methods. The UT method is performed making use of several techniques, such as phased array, immersion and contact, giving the possibility to conduct inspections on different sizes and profiles, complying to the main aerospace standards.

Valbruna is Nadcap accredited for Non-Destructive Testing and approved for BOEING BSS 7055 Specification.

MECHANICAL TEST LABORATORIES

Valbruna boasts modern technological laboratories equipped with state-of-the-art machines, to carry out mechanical tests, not only for the standard certification of products, but also upon Customers' requests.

Valbruna is Nadcap accredited for Materials Testing Laboratories (Fort Wayne plant - USA).

Valbruna has obtained the AS9100 Rev. D certification for the production sites in Italy (Vicenza, Bolzano) & USA (Fort Wayne, IN) and the AS9120 Rev. B for the following distribution warehouses:

- Acciaierie Valbruna S.p.A. - Vicenza (ITALY)
- Valbruna France SAS - Charvieu (FRANCE)
- Valbruna France SAS - Cergy Pontoise (FRANCE)
- Valbruna France SAS - Bonneville (FRANCE)
- Valbruna Iberica - Loiu (SPAIN)
- Valbruna UK Ltd - Sheffield (UNITED KINGDOM)
- Valbruna Stainless Inc. - Pompton Lakes, NJ (USA)
- Valbruna Stainless Inc. - Carol Stream, IL (USA)
- Valbruna Stainless Inc. - Chino, CA (USA)
- Valbruna Stainless Inc. - Lawrenceville, GA (USA)
- Valbruna Stainless Inc. - St. Petersburg, FL (USA)



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ACCREDITED

Heat Treating (Vicenza plant, ITALY)

Nondestructive Testing (Vicenza plant, ITALY)

Materials Testing Laboratories (Fort Wayne plant, USA)

BOEING APPROVAL ON D1-4426 LIST FOR

- PH13-8M0 Ingots and Bars – AMS 5629
- 15-5 PH Ingots and Bars – AMS 5659