MOTORSPORT

Special steels and superalloys

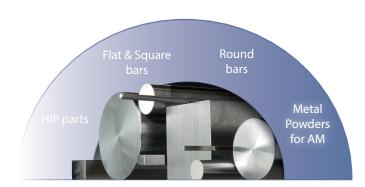


AHEAD IN THE RACE!

MATERIAL INNOVATION DRIVEN BY PERFORMANCE

Aubert & Duval offers the widest range of high performance materials to meet the most extreme and exacting requirements for every demanding motorsport, including Formula 1, WRC, INDYCar and MotoGP.

Thanks to its long experience in aerospace applications, Aubert & Duval can supply innovative, reliable solutions for highly demanding parts in critical powertrain and engine applications.





Customer benefits

- + High performance alloys: Strength, corrosion and excellent fatigue resistance
- New generations of nitriding steels with reduced cycle times to lower manufacturing costs while enhancing performance
- + Customized alloy grades
- + Stock availability for fast delivery
- + A global supplier
- → Dedicated teams for Technical support & R&D

In collaboration with the main racing teams, Aubert & Duval constantly develops steels & alloys with advanced mechanical properties to meet tomorrow's challenges:

PARTS	CHALLENGES	A&D BEST-IN-CLASS MATERIALS		
	Fatigue	AD65N™ and GKP® deep nitrided	L.S.	
CRANKSHAFTS	Stiffness	NC310YW carburized		
	Wear	ML340	A TOP OF THE PARTY	
DRIVE SHAFTS	High yield strength	NC310YW carburized		
TRANSMISSION SHAFTS	Fatigue, toughness	ML340		
TORSION BARS	Corrosion (if requested)	MLX®19		
HOT PARTS	Yield strength at high temperature High-temperature fatigue resistance Creep resistance	AD730 [®] ABD [®] -1000AM [®] MPN		
FASTENERS BOLTS	High Strength, Fatigue, Corrosion	MLX®17, MLX®19		

MOTORSPORT

A dedicated and complete offering



		Designations			Possible melting route				Main applications					
	AD GRADES	AFNOR	14/1	AIGL DG LING TIE OTHERS	ANG	AIR MELT	SPECIAL MELT** Y, YW	CAMSHAFTS	CRANKSHA	FTS GEARS	DRIVE SHAFTS	CONRODS		OTHERS
	ENGINEERING ST	AFNOR EELS	WL	AISI - BS - UNS - JIS - OTHERS	AMS		Υ, Υ ۷۷			_				
I	Nitriding steels													
	AD65N TM NEW!	30CrMoV13-15				•	•							
	GKH™	33CrMoV12-9	~ 1.7765	K24340	6481	•	•							
	GKP®	32CrMoV5	1.8545	K23280	6496 / 6497 / 6498	•	•	100						
	Carburizing steel	ls												
	819AW	35NiCrMo16					•							
	FADH	14NiCrMo13-4	1.6657	S157		•	•	100						
	FDG	20NiCrMol3	1.6660*	K41910	6492 / 6493	•	•	100						
_	FND®	15NiMoSiCr10		K51570	6495		•	100						
	NC310YW	40NiSiCrMoV10		K54015	6499		•							
	Through hardeni	ng steels												
	819B	36NiCrMo16	1.6773*			•								
	FDMA	30NiCrMo16				•								
	NC40SW	40NiSiCrMo7		K44220 - 300M - S155	6417 / 6419		•							
	ML340	X23NiCoCr- MoAl13-6-3					•							
	MARVAL18	X2NiCoMol8-8-5	1.6359	K92890 - Maraging 250	6212		•							Tappets
	MY19	X2NiCoMo18-9-5	1.6354	K93120 - Maraging 300	6514		•							Axles - Torsion bars
	MY24	X2NiCoMo18-12-5		K93540 - Maraging 350	6515		•							Axles - Torsion bars
	RA50YW	80MoCrV42-16	1.3551	T11350 - M50	6491		•							Bearings
	STAINLESS STEEL	LS												
	Martensitic													
	X15TN®	X40CrMoVN16-2	1.4123*	S42025	5925		•							Wear parts
	Austenitic													
	XN26TW	X6NiCrTi- MoVB25-15-2	1.4944	S66286 - A286 - HR51 - HR650	5731 / 5732		•							Connecting components
	Maraging steels													
	MARVALX12H	X1CrNiMoAlTi12-10-2	1.4596*	S10120	5935		•							Connecting components
	MLX®17	X1CrNiMoAlTi12-11-2	1.4612	S11100	5937		•							Connecting components
	MLX®19	X1CrNiMoAlTi11-12-2	~1.4596	S11902	5955		•							Connecting components
	X15U5W®	X5CrNiCu15-5	1.4545	S15500 - 15-5PH	5659		•						100	Connecting components
	MARVAL13X	X3CrNiMoAl13-8-2	1.4534	S13800 - 13-8Mo	5629		•							Connecting components
	SUPERALLOYS									*0	1			
	Contact us to learn more	about our offer of forge	ed or rolle	ed bars in Nickel or Cobalt-based su	uperalloys.					**SPECIA		ir melt or \	/IM + ESR o	esignation or VAR
	NICKEL-BASED S	UPERALLOY PO	OWDE	RS FOR ADDITIVE MAN	IUFACTURING o	r HIP I	PARTS			ESR: Elec	tro-Slag R uum Arc F	emelting	119	
	ABD®-900AM®	 Good strengt 	h and cr	es up to 900°C/1652°F eep properties orrosion resistance							lable in sto	_		

For high temperatures up to 1000°C/1832°F

Good strength and creep properties
 Good oxidation and corrosion resistance

For temperatures up to 750°C/1382°F High strength, creep and fatigue properties AD730®

ABD®-1000AM®

Ni625

Ni718

MPN NEW!

Excellent mechanical properties at high temperatures up to 980° C/1796°F Excellent corrosion resistance Good low temperature toughness

Excellent mechanical properties up to temperatures around 650°C/1202°F Good resistance to high temperature oxidation

Powder metallurgy + HIP (Hot Isostatic Pressing) material
 Good resistance to high temperature oxidation
 High yield strength and creep resistance > 800 °C/1472 °F and isotropic properties
 Excellent oxidation resistance at temperatures exceeding 1000°C/1832°F
 Possible to have semi-finish shape close to the final part

www.aubertduval.com

STELLAR Metal powders by AUBERT & DUVAL

Aubert & Duval - 12/2025