Cogne Acciai Speciali

COGNE ACCIAI SPECIALI at the heart of Automotive

www.cogne.com

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THE REALISM

CAS PRODUCTS FOR AUTOMOTIVE



EXAUST SYSTEMS

CATALYTIC (WELDING WIRE, WOOL WIRE, WIRE FOR SUPPORT RINGS AND BARS FOR FIXING ELEMENTS)



SAFETY

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WINDSHIELD WIPERS (SUPPORT WIRE)

AIRBAG (BARS FOR CARTRIDGE AND KNITTED WIRE)

CRUISE CONTROL ABS AND RIDE CONTROL SOLENOIDS PRESSURE SENSORS



ENGINE MANAGEMENT

FUEL INJECTORS ENGINE VALVES OXYGEN SENSORS FUEL PUMP THROTTLE SHAFT RADIATOR EGR COMPONENTS (BYPASS VALVES) ENGINE SOLENOIDS FASTENERS

11115

BRAKING

SYSTEMS

ANTI-LOCK BRAKING SOLENOIDS

ACCESSORIES

Springs (I.E: Rear-View Mirrors, Cigarette Lighter, etc.) Transmission Wires (I.E. For Windows And Sliding Roofs)

Cogne Acciai Speciali is focusing on the Automotive market



- significant growth in the automotive Industry's application of stainless steel long products;
- technological developments tied to reducing carbon emissions increasingly require the use of high performance stainless steels;
- since 2007 the automotive use of stainless steel long products has doubled and it is forecasted to double again within a few years.



- > Technological collaboration with our research-driven partners;
- > Development of high performance steels;
- Plant restructuring supported by a 100 year-long history of quality know-how;
- Global footprint (the only stainless steel supplier with world-wide locations);

Significant share in premium and technology-driven OEMs.



OUR STAINLESS STEEL for automotive

Steel Class	Cogne Grade	Lavorabilità	EN/DIN/UNI migliorata	W.N.	BS	AISI/ASTM/ASME		
	303/1	IMCO*	X8CrNiS 18-9	1.4305	303531	303 8F B8F		
	303K	IMCO*	X6CrNiCuS 18-9-2	1.4570	and and a second second			
	304R		X2CrNi 19-11	1.4306	304512	304 L		
	F304	IMCO*	X5CrNi 18-10	1.4301	304531	304 B8		
	304K		X3CrNiCu 18-9-4	1,4567	394517	304 Cu		
	F304L	IMCO*	X2CrNi 19-11	1.4306	304512	304 L		
	F304L1	IMCO*	X2CrNi 18-9	1,4307	304511	00000		
Austenitic grades	304 BS	IMICO		1.4307	304511			
Austenitic grades	and the second se		x2CrNi18-9	CONTRACTOR OF T	Constanting and the second	200		
	30951		X15CrNiSi 20-12	1.4828	309524	309		
	F316	IMCO*	X5CrNiMo 17-12-2	1.4401	316531	316 8M B8M		
	316K		X3CrNiCuMo 17-11-3-2	1.4578	396S17	2021 202000		
	F316L	IMCO*	X2CrNiMo 17-12-2	1.4404	316511	316L 8M 88M		
	316LK	IMC0*		1.4427				
	316LM2	IMCO*	X2CrNiMo 18-14-3	1.4435	316513	316L		
	316LM1		X2CrNiMo 18-14-3	1.4441	4341/B	316L F138gr2		
	316LM		X2CrNiMo 18-14-3	1.4435	316513	316L		
	316R		X2CrNiMo 17-12-2	1.4404	316512	316L		
	316T/1	IMCO [®]	X6CrNiMoTi 17-12-2	1.4571	320531	316Ti		
	321/3	IMCO [®]	X6CrNiTi 18-10	1.4541	321531	321		
	430/1		X6Cr17	1.4016	430517	430		
Ferritic grades	430/4	IMCO*	X6Cr17	1.4016	430517	430		
	430FZ	IMCO*	X6CrMoS17	1.4105		430F		
	430F4	IMCO*	X6CrMoS17	1,4105		430F		
	430F6	IMCO®	X6CrMoS17	1,4105	-	430F		
	434		X6CrMo17-1	1,4113	434517	434		
	430NB		X3CrNb17	1,4511	454577	430Cb		
	329/1	IMCO®	X3CrNiMoN 27-5-2	1,4460		329		
	329A	inco	X2CrNiMoN 22-5-3	1.4462	318513	F51 Cr22		
Duplex grades	3295		X2CrNiMoCuWN 25-7-4	1,4402	510315	F55		
			A CONTRACTOR OF	2333223				
	3295/1 310/1		X2CrNiMoN 25-7-4 X8CrNi 25-21	1.4410	310531	F53 Cr25 310 S		
Heat resisting grades	347	_				347		
rear resisting graves			X6CrNINb 18-10	1,4550	347531	No. 1		
	354 630/3	IMC0 [®]	X1CrNiMoCuN 25-18-7 X5CrNiCuNb 16-4	1.4547		F44		
Precipitation hardening grades	SF286	INICO-	X6NiCrTiMoVB 25-15-2	1,4980	286531	660		
Super alloy grades	904L		X1NiCrMoCu 25-20-5	1.4539	904513	904L		
Juber anal Aranes	410/2		X12Cr13	1.4006	410521	410		
	410/6	IMCO*	X12Cr13	1.4006	410521	410		
	E415	MILES ()	X3CrNiMo 13-4	1,4313	425012	E6NM		
	415M		X4CrNiMo 16-5-1	1.4418	AND THE	i sottini		
	416/1	IMCO*	X12Cr513	1,4005	416521	416		
	420A/7	IMCO*	X20Cr13	1,4021	410521	410 420L		
	420A/7 420B/4	IMCO*		2033223001		420L 420M		
	100000000000000000000000000000000000000	and the second se	X30Cr13	1,4028	420537	10000		
	420BF/2	IMC0*	X29Cr513	1,4029	416537	420F		
Martensitic grades	420C		X39Cr13	1,4031	420S45	420H		
in territing groues	420C/1		X46Cr13	1,4034				
	420CF	IMCO*	X45Cr513	1.4035				
	420C/4	IMC0*	X46Cr13	1.4034				
	4200		X65Cr13	1.4037				
	420RM1		X39CrMo 17-1	1.4122				
	430F/3	IMCO*	X14CrMoS17	1,4104		430F		
	431/1	IMCO*	X17CrNi 16-2	1,4057	431529	431		
	440B		X90CrMoV18	1.4112		440B		
	440C/2		X105CrMo17	1.4125		440C		
	616C		X20CrMoV 12-1	1,4922				
	616		X20CrMoWV 12-1	1,4935		422		

CERT CEF

OUR QUALITY Focused on our customer

CAS Safety Policy:

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CERTIFICATE DECODO an IXIBIT Partner Methy charan that the organization: Cogne Accial Special Spa 1100 Acta AD DE The Molecular ACCOP The Molecular Accops.

ISO 9001:2008

Issued on: 2017-11-27 First Issued on: 1992-10-30 care, pages which the original contrast insued Registration Number: IT - 0062 IGQ 9223

ERTIFICATO CERTIFICATE

IGQ 9223 fica che il sistema di gestione qualità di that the quality management ayatem opera e Acciai Speciali Spa

SO/TS 16949:2009

cisc

- 1) Safety management manual
- 2) Prevention policy of relevant accidents and fires
- 3) Plant general rescue plan

Our quality and R&D service has the responsibility of guaranteeing that Cogne products respond to both the most demanding International Standards and to each customer's individual specifications. Our company is certified according ISO 9001:2008; ISO/TS 16949:2009; ISO14001:2004. Our goal is the continuous improvement of our products, the complete satisfaction of our customers and the constant search for competitive advantage on a global scale. Our search for innovative solutions and the promotion of a customer-orientated Company Culture lead us to develop the following:

- Customer service
- Metallurgical process control
- Laboratory and testing
- Research and Development
- Quality Certification
- Customer homologation

OUR DASHBOARD Quality[°] every step of the way



High purity Microcleannes Macrostructure online control



Product defectivity online control Heat treatment diagram control

km

FINISHING

Peeling

Drawing

Grinding

- Magnetic annealing treatment
- Mechanical characteristic control



Dimensional laser control Magnatest Eddy current testing machine US testing Final approval

OUR COGNE ENGINE VALVE STEELS

Grade	c	Si	Mn	P	s	Cr	Mo	Ni	Nb	W	Nz	Annealed HRC	Hardened & tempered HRC	EN 10090		SAE	, Л5	Others
VA34	0.28- 0.38	0.5- 1.0	1.5- 3.5	≤ 0.050	≤ 0.030	22- 24	≤0.5	7.0-9.0		≤0.5	0.25-0.35	≤ 38		1.4866	X33CrNiMnN23.8	EV16		23-8N
VA61	0.48- 0.58	≤0.45	8- 10	≤ 0,050	≤ 0.030	20- 22		3.25-4.5			0.35-0.50	\$40		1.4871	X53CrMnNiN21.9	EV8	SUH115	21-4N
VA66/2	0.5- 0.6	≤0.25	7- 10	≤ 0.050	≤ 0.030	19.5- 21.5		1.5-2.75			0.20-0.40	≤ 40		1.4875	X55CrMnNiN21.9	EV12		21-2N
VA63	0.45- 0.55	≤0,45	8- 10	≤ 0.050	≤ 0.030	20- 22		3.5-5.5	1.8-2.5	0.8-	0.40-0.60	≤ 40		1.4882	X50CrMnNINbN21.9	EVSNOW		21-4NWNb
VM09	0.45- 0.55	1.0- 2.0	≤ 0.60	≤ 0.030	≤ 0.030	7.5- 9.5		≤ 0.50			1012121	≤ 30	30-35		X50CrSi8_2		SUH11	
VM11	0.40- 0.50	2.7- 3.3	≤ 0.80	≤ 0.040	≤ 0.030	8.0- 10.0		≤ 0.50				\$ 30	30-35 / 35-43	1,4718	X45Cr5i9.3	HNV3	SUNT	
VM12D/1	0.35- 0.45	2.0- 3.0	≤ 0.80	≤ 0.040	≤ 0.030	9.0- 11.0	0.8- 1.3					≤ 30	30-35	1,4731	X40CrSiMo10.2		SUH3	