

We will join the future.

Welding aluminium with consideration of quality and productivity

Our extensive product portfolio of aluminium wire electrodes,
TIG welding rods, and various types of packaging



Your benefit—our capabilities

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Aluminium MIG wire electrodes and WIG rods by Safran®

As Europe's largest manufacturer and global supplier of aluminum welding and brazing wire, Safran is consistently the leader in manufacturing, quality, and production technology. We provide the entire product programme for aluminium welding and brazing filler materials, as well as accessories to support you in your daily tasks. Our technical service is able to provide fast, unbureaucratic assistance in every region of the world.

X-ray proof welding of aluminium components with high mechanical quality values begins with the selection and chemical specification of the raw materials. That is why we use raw materials with the least possible hydrogen content and a very narrow chemical composition. For the user, this means no rework due to pores or low mechanical quality values.

In order to minimize down time times for spool changes, we have spools ranging from 7 – 40 kg and bulk packaging systems ranging from 40 – 250 kg in our product portfolio. With this enormous selection of packaging systems and pay off solutions, you can decide how to increase productivity in your manufacturing facility.

Our packages are robust, making them excellent for rough daily use in production facilities. The packaging can be recycled without limitation.



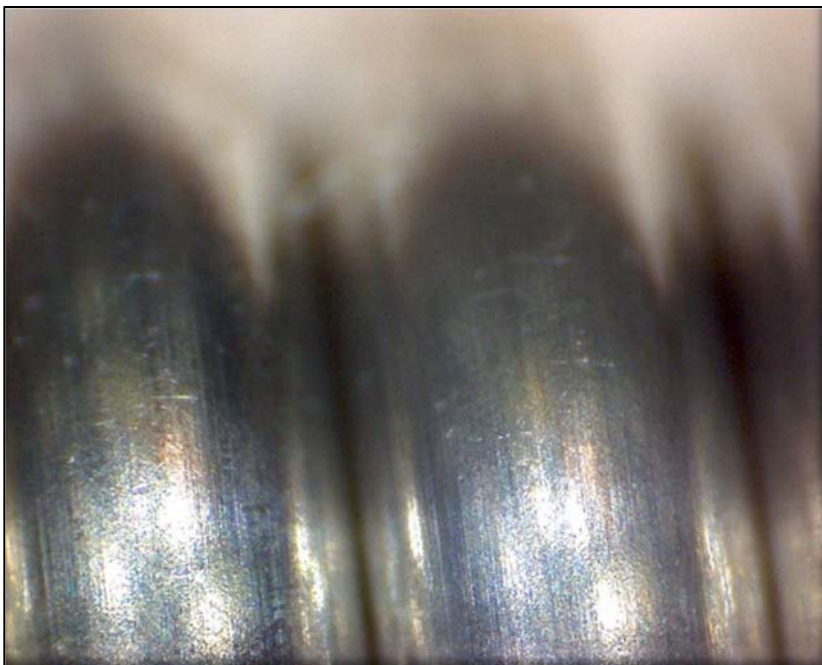
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We will join the future.

Customers and users in the aluminium industry around the world value the consistent high quality, high productivity, and reliability of Safran.

- Trouble-free wire feed
- X-ray proof weld seams with flawless seam optics
- Robust and attractive packaging to increase your productivity
- Precise wire diameter and permanent inline measurement, critical for automation
- Constant welding parameters and reproducible results
- Strictly controlled chemistry, which results in high mechanical quality values
- Large selection of naturally hard and precipitation hardening aluminium alloys,
- Unbureaucratic technical assistance around the world



Safran ER5356 1.2 mm, mandrel test.

The lack of surface defects despite the high stress at the wire electrode surface confirms that wire drawing and shaving process is very good.

Safran product program

Solid aluminium wire electrodes and TIG welding rods

Overview of all Safran aluminium alloys

SAFRA	EN ISO 18273	AWS A5.10
Al99,5Ti	S Al 1450	ER 1450
Al99,7	S Al 1070	ER 1070
AlCu6MnZrTi	S Al 2319	ER 2319
AlSi5	S Al 4043	ER 4043
AlSi12	S Al 4047	ER 4047
AlSi7Mg	S Al 4008	ER 4008
AlSi10Cu4	S Al 4145	ER 4145
AlMg2,7Mn	S Al 5554	ER 5554
AlMg4,5Mn	S Al 5183	ER 5183
AlMg5Cr A	S Al 5356	ER 5356
AlMg4,5MnZr	S Al 5087	ER 5087
AlMg5Mn	S Al 5556A	ER 5556A
AlMg3	S Al 5754	ER 5754
AlMg6Zr	--	--
AlMg6	--	--

All Safran aluminium alloys meet international standards

We produce solid wire electrodes from $\varnothing$ 0,8 – 4,80 mm.

TIG rods from $\varnothing$ 1,6 – 5,00 mm in 2 kg, 5 kg, and 10 kg packaging.

(Additional diameters and packaging on request)



Safron bulk packaging systems - Aluminium

The solution to increase productivity



Aluminium Welding Wires Alloys																			
Package System 1	Volume [kg]	Ø [mm]	1070	1450	4043	4047	4145	4008	2319	5554	5754	5356	5183	5087	5556A	5556	2319	AlMg6Zr	AlMg6
Quadro	140	1,00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ø 600 mm	140	1,20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
H = 900 mm	140	1,60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Package System 2	Volume [kg]	Ø [mm]	1070	1450	4043	4047	4145	4008	2319	5554	5754	5356	5183	5087	5556A	5556	2319	AlMg6Zr	AlMg6
Nano	40	1,00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ø 520 mm	40	1,20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
H = 390 mm	40	1,60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Package System 3	Volume [kg]	Ø [mm]	1070	1450	4043	4047	4145	4008	2319	5554	5754	5356	5183	5087	5556A	5556	2319	AlMg6Zr	AlMg6
Mezzo	80	1,00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ø 520 mm	80	1,20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
H = 780 mm	80	1,60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Package System 4	Volume [kg]	Ø [mm]	1070	1450	4043	4047	4145	4008	2319	5554	5754	5356	5183	5087	5556A	5556	2319	AlMg6Zr	AlMg6
Piccolo	100	1,00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ø 650 mm	100	1,20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
H = 560 mm	100	1,60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Package System 5	Volume [kg]	Ø [mm]	1070	1450	4043	4047	4145	4008	2319	5554	5754	5356	5183	5087	5556A	5556	2319	AlMg6Zr	AlMg6
Grande	200	1,00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ø 650 mm	200	1,20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
H = 950 mm	200	1,60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Package System 6	Volume [kg]	Ø [mm]	1070	1450	4043	4047	4145	4008	2319	5554	5754	5356	5183	5087	5556A	5556	2319	AlMg6Zr	AlMg6
Gigante L	120	1,00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ø 750 mm	120	1,20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
H = 550 mm	120	1,60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Package System 7	Volume [kg]	Ø [mm]	1070	1450	4043	4047	4145	4008	2319	5554	5754	5356	5183	5087	5556A	5556	2319	AlMg6Zr	AlMg6
Gigante XL	250	1,00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ø 750 mm	250	1,20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
H = 1100 mm	250	1,60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



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Safran bulk packing system

All Safran bulk packing systems are ideally suited for manual and robotic applications. They are used with a footprint from Ø 520 to Ø 750 mm.

The benefits of paying off wire from Safran bulk packing systems are:

- + Stable arc due to uniform wire feeding
 - + No tangling wire out of the contact tip
 - + No contamination of wire guidance
 - + Longer service life due to lower wear of contact tips and liners
 - + Low torsion when paying off the wire out of the drum
 - + Transport over long distances
 - + Straight weld seams for long distances
- = **constant weld seam quality with constant weld penetration**

You determine your spool changeout time and productivity between 7 kg and 250 kg.

Compare spool changeover times and savings
for a demand of 10.000 kg of welding materials per year.



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Cost comparison of various types of packaging

Cost comparison in between Standard Spools of 7 kg, 20 kg Spool, Speed Pac "Nano" 40 kg until Speed Pac "Gigante XL" - 250 kg								
Type of Packaging:	Spool B300-7 kg	Big Spool D350-20 kg	Speed Pac 52 "Nano"	Speed Pac 65 "Piccolo"	Speed Pac 52 "Standard"	Speed Pac 60 "Square"	Speed Pac 65 "Grande"	Speed Pac 75 "Gigante XL"
Weight of wire per packaging [kg]	7 kg	20 kg	40 kg	100 kg	80 kg	140 kg	200 kg	250 kg
Weld wire consumption per year [kg]	10.000 kg							
Number of spool replacements per year [units]	1429	500	250	100	125	71	50	40
Time of replacement per type of packaging [min]	10	10	15	15	15	15	15	15
Time of replacement per year [min] for a yearly consumption of 10.000 kg	14.285,71	5.000,00	3.750,00	1.500,00	1.875,00	1.071,43	750,00	600,00
Total spool-change time [h] for	238,10	83,33	62,50	25,00	31,25	17,86	12,50	10,00
1. Costs related to spool replacements :								
Operational costs for robot and operator [€/h]	85,00 €							
Costs for spool replacement per year	20.238,10 €	7.083,33 €	5.312,50 €	2.125,00 €	2.656,25 €	1.517,86 €	1.062,50 €	850,00 €
2. Additional costs related to the use of drum packages :								
Purchasing price [€ / kg]	8,50 €	8,61 €	8,79 €	8,79 €	8,79 €	8,79 €	8,79 €	8,79 €
Welding wire costs per year [€ / year]	85.000,00 €	86.100,00 €	87.900,00 €	87.900,00 €	87.900,00 €	87.900,00 €	87.900,00 €	87.900,00 €
Total cost per year (Welding wire cost + spool replacement cost)	105.238,10 €	93.183,33 €	93.212,50 €	90.025,00 €	90.556,25 €	89.417,86 €	88.962,50 €	88.750,00 €
3. Quality / Using grade								
Cost per hour for manual repair work	36 €							
Manual re-work quantity [%]	5,00%	4,00%	3,80%	0,50%	3,80%	1,20%	0,50%	0,20%
Cost for repair work per year	2.880,00 €	2.304,00 €	2.188,80 €	288,00 €	2.188,80 €	691,20 €	288,00 €	115,20 €
4. Effort for replacements of wear parts								
Parts cost for the replacement of contact tip and liner								
Contact tip or liner or both [€]	15,00 €							
Perform maintenance after a wire volume of [kg]	3	7	30	50	30	40	50	60
Amount of maintenances [Maintenance]	3333	1429	333	200	333	250	200	167
Time to replace wear parts / components [min]	10	10	10	10	10	10	10	10
Time to replace wear parts / components [h]	0,17	0,17	0,17	0,17	0,17	0,17	0,17	0,17
Total effort in hours [h]	555,56	238,10	55,56	33,3	55,6	41,7	33,3	27,8
Total effort in money [€]	70.000,00 €	30.000,00 €	7.000,00 €	4.200,00 €	7.000,00 €	5.250,00 €	4.200,00 €	3.500,00 €
5. Financial lost due to not welded parts because of maintenance, spool exchange time / per station								
Possible amount of welded parts / Station per hour [Pcs]	50							
Lost of profit per part [€]	1,00 €							
Lost of profit per hour [€]	50,00 €	50,00 €	50,00 €	50,00 €	50,00 €	50,00 €	50,00 €	50,00 €
Lost of profit per year [€]	27.777,78 €	11.904,76 €	2.777,78 €	1.666,67 €	2.777,78 €	2.083,33 €	1.666,67 €	1.388,89 €
TOTAL COST	205.895,87 €	137392,10 €	105179,08 €	96179,67 €	102522,83 €	97442,39 €	95117,17 €	93754,09 €
Cost savings with the use of 20 kg Spool, Speed Pac 52 Nano 40 kg until Speed Pac 75 Gigante XL 250 kg compared to 7 kg Spools								
Savings for a yearly consumption of 10.000 kg		68503,78 €	100716,80 €	109716,21 €	103373,05 €	108453,48 €	110778,71 €	112141,78 €

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Our approvals for MIG welding



Shielding Gas: EN ISO 14175 - I1

*** = Also for Shielding Gas EN ISO 14175-I3
only for Lloyd's Register

APPROVALS - MIG WIRES											
Alloy	Type	mm	ABS	BV	DNVGL	LR	RINA	NKK	VdTUV	NAKS	DB
5356	MIG	0,8	X		X	X	X	X	X		X
		1,0	X		X	X	X	X	X		X
		1,2	X	X	X	X	X	X	X		X
		1,6	X	X	X	X	X	X	X		X
		2,0							X		X
		2,4							X		X
5183	MIG	0,8	X		X	X***	X	X	X		X
		1,0	X		X	X***	X	X	X		X
		1,2	X	X	X	X***	X	X	X		X
		1,6	X	X	X	X***	X	X	X		X
		2,0							X		X
		2,4							X		X
5087	MIG	0,8									X
		1,0									X
		1,2									X
		1,6									X
		2,0									X
		2,4									X
4043	MIG	0,8							X		X
		1,0							X		X
		1,2							X		X
		1,6							X		X
		2,0									X
		2,4									X
1450	MIG	0,8							X		X
		1,0							X		X
		1,2							X		X
		1,6							X		X
		2,0							X		X
		2,4							X		X
5554	MIG	0,8							X		X
		1,0							X		X
		1,2							X		X
		1,6							X		X
		2,0									
		2,4									
5556A	MIG	0,8									
		1,0									
		1,2							X		



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Our approvals for TIG welding



Shielding Gas: EN ISO 14175 - I1

APPROVALS - TIG RODS											
Alloy	Type	mm	ABS	BV	DNVGL	LR	RINA	NKK	VdTUV	NAKS	DB
5356	TIG	1,6						X			X
		2,0						X	X		X
		2,4						X	X		X
		3,2						X	X		X
		4,0						X	X		X
		5,0						X	X		X
5183	TIG	1,6						X			X
		2,0						X	X		X
		2,4						X	X		X
		3,2						X	X	X	X
		4,0						X	X	X	X
		5,0						X	X	X	X
5087	TIG	1,6							X		X
		2,0							X		X
		2,4							X		X
		3,2							X		X
		4,0							X		X
		5,0							X		X
4043	TIG	1,6							X		X
		2,0							X		X
		2,4							X		X
		3,2							X		X
		4,0							X		X
		5,0							X		X
1450	TIG	1,6							X		X
		2,0							X		X
		2,4							X		X
		3,2							X		X
		4,0							X		X
		5,0							X		X
5554	TIG	1,6							X		X
		2,0							X		X
		2,4							X		X
		3,2							X		X
		4,0							X		X
		5,0							X		X

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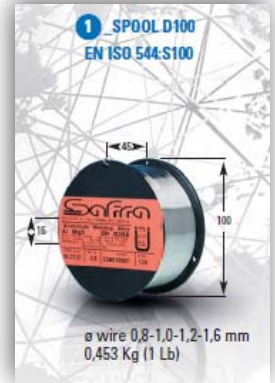
Types of Safran packaging

D100 Spool

0,453 Kg spool - Aluminium available for diameters 0,8-1,6 mm

Customer advantage:

- Continuous straight wire feeding for longitudinal and uninterrupted welding seams. (no wire tangling)
 - Simple and fast replacement,
 - Precision layer wound
- Perfect for orbital welding applications and for MIG spool guns



D 200 Spool

2 Kg spool – Aluminium wire available for diameters 0,8-1,6 mm
Central hole (52mm)

Customer advantage:

- Continuous straight wire feeding for longitudinal and uninterrupted welding seams. (no wire tangling)
- Simple and fast replacement,
- Precision layer wound
- packed in VCI protecting films



Types of Safran packaging

D 300 Spool

5,6 and 7 Kg (9kg US) Spools Aluminium
available for diameters 0,8-2,4 mm

- Spools with central hole (52mm) and for spool adapter
- Customers can choose between D, BS and KS 300 spools
- Precision layer wound
- packed in VCI protecting films
- Vacuum packaging (optional)
Long shelf life and difficult storage conditions are possible (optional)
- Packaged under inert conditions < 0.3 % O
Longer shelf life and difficult storage conditions are possible (optional)



D350 Spool 20 kg (44 Lbs)

available for diameters 1,2, 1,6-2,4 mm
Spindle diameter like the 7 kg spool, available in our stock

Customer advantage

- Continuous straight wire feeding for longitudinal and
- uninterrupted welding seams. (no wire tangling)
- Simple and fast replacement,
- Increase productivity because of reduction of spool exchanging time
- Precision layer wound
- Bigger cast at the 5XXX series Aluminium alloys on 7 kg spools
- simple solution for automation with a pay-off stand



Types of Safran packaging

K400 Spool 40kg

available for diameters 0,8-2,4 mm

Customer advantage

- Continuous straight wire feeding for longitudinal and
- uninterrupted welding seams. (no wire tangling)
- Simple and fast replacement,
- Increase productivity because of reduction of spool exchanging time
- Precision layer wound
- Bigger cast at the 5XXX series Aluminium alloys on 7 kg spools

Optional

- Pay-off Machine
- Pay-off stand for a simple setup for automatic welding

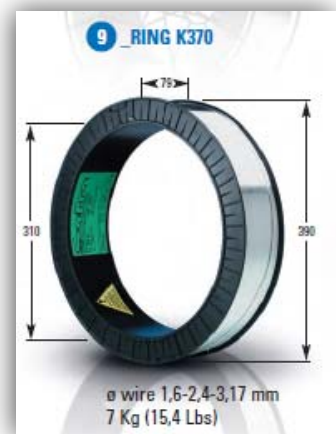


7 kg Ring for thermal spraying

7 Kg Ring for Aluminium alloys for diameters 1,6 – 3,17 mm

Customer advantage

- very good wire feeding for spraying operations because of the smooth aluminium wire surface
- packed in VCI protecting films



Types of Safran packaging

TIG rods

Available 2 Kg, 5 Kg and 10 Kg packages for Aluminium alloys for rod diameters Ø 1,6 – 5,0 mm (Ø 1,2 mm or 500 mm length only of request)

Customer advantage

- very clean wire surface for x-ray quality welds
- always straight rods
- packed in VCI protecting films
- Embosses on one side with double stamp as standard
(Option - customers can have embosses on both sides with double stamp)
- 1000 mm length / 36in (914 mm).



Safra Standard Accessories

Product	Item Number	Image
Plastic Hood for the Ø 520 mm drum	9910000003	
Plastic Hood for the square 600 mm drum	9910000004	
Plastic Hood for the Ø 650 mm drum	9910000005	
Plastic Hood for the Ø 750 mm drum	9910000027	
Wire Pay-Off System for 0,8 – 1,60 mm wires		
Ø 520 mm – Round Drum	9910000010	
□ 600 mm – Square Drum	9910000015	
Ø 650 mm – Round Drum	9910000014	
Ø 750 mm – Round Drum	9910000026	
Single Cone with Orbital Arm Drum without inner core		

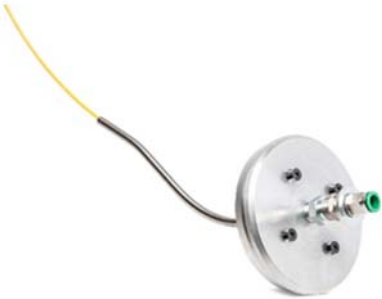


Safra Standard Accessories

Product	Item Number	Image
Mounting plate for wire straightener (9910000016 and 9910000017) on plastic hood (9910000003, 9910000004, 9910000005, 910000027) Patent Pending E0108768	9910000028	
Wire Pay Off System - Doppel Cone		
□ 600 mm – Square Drum	9910000008	
Ø 650 mm – Round Drum	9910000007	
Ø 750 mm – Round Drum	9910000036	
Wooden Balls small Ø 40 mm not fumigated (70 Balls per Set)	9910000006	
Wooden Balls small Ø 40 mm fumigated (outside of the EU) (70 Balls per Set)	9910000024	
Wire Connector for all drums (Plastic Hood - Wire Conduit) with Ceramic for the Safra wire conduit	9910000009	
Wire Conduit – MOQ 5 meter incl. 2 Plastic PG – Connector <i>Please submit the maximum length when you place a purchase order</i>	9910000011	

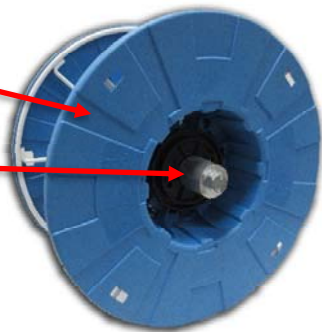


Safran Standard Accessories

Product	Item Number	Image
Wire Straightener two plan with connector for the mounting plate <i>(five roller each for 4XXX series wire)</i> <i>Patent Pending E0108768</i>	9910000016	
Wire Straightener two plan with connector for the mounting plate <i>(seven roller each for 5XXX series wire)</i> <i>Patent Pending E0108768</i>	9910000017	
Inner Orbital Arm incl. PTFE Liner For drums with Ø 520 mm Aluminium wire diameter 0,8 – 1,60 mm <u>For drums with an inner core</u>	9910000018	
Inner Orbital Arm incl. HDPE Liner For drums Ø 650 mm and □ 600 mm included connector for the Safran wire conduit. Aluminium wire Diameter 0,8 – 1,60 mm <u>For drums with inner core</u>	9910000019	



Safran Standard Accessories

Product	Item Number	Image
Wire feeder for K400 (40 kg Spool)	9910000020	
Spool adapter for the K400 (40 kg) spool. Simple application for automatic welding on Robots or welding gantries Spindle with spool brake for holding the spool adapter <i>Both articles are necessary so that you can safely operate the spool on a frame or on the Safran stand</i>	9910000038 9910000037	
Spindle with spool brake for holding up the D350 (20 kg) spool on the Safran pay-off stand (article no. 9910000039). <i>Here is no spool adapter necessary The spindle with the spool is mounted directly on the Safran pay-off stand (Article No. 9910000039) or on a frame.</i>	9910000035	

Safra Standard Accessories

Product	Item Number	Image
Pay-off stand for D350 (20 kg) and K400 (40 kg) spools	9910000039	
Simple solution to increase productivity		
Complete rack for Ø 520 mm – 650 mm drums (Without wire feeding system Incl. 9910000021, 9910000029	9910000031	
Complete stand for Ø 750 mm drums (Without wire feeding system Incl. 9910000032, 9910000033)	9910000034	
Drum rack for Ø 520 - 650 mm drums	9910000021	
Drum rack for Ø 750 mm drums	9910000032	
Mounting Plate for the Fronius WF25 R2 and R4 feeding unit to add it on the Ø 520 – 650 drum and Ø 750 mm stand	9910000030	
Trolley for Ø 520 - 650 mm drums	9910000029	
Trolley for Ø 750 mm drum	9910000033	

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Safran Aluminium Packaging System										
A complete range of accessories for a successful setup of the Safran spool and drum packages										
Accessories for 4XXX Series Products										20180404
Item no.	Product description	D 350 Spool Ø 350 mm	K 400 Spool Ø 400 mm	Speed Pac Nano Ø 520 mm	Speed Pac Piccolo Ø 650 mm	Speed Pac Square 600 mm	Speed Pac Standard Ø 520 mm	Speed Pac Grande Ø 650 mm	Speed Pac Gigante L Ø 750 mm	Speed Pac Gigante XL Ø 750 mm
991000003	Plastic Hood Ø 520 mm (Round)	-	-	X	-	-	X	-	-	-
991000004	Plastic Hood 600 mm (Square)	-	-	-	-	X	-	-	-	-
991000005	Plastic Hood Ø 650 mm (Round)	-	-	-	X	-	-	X	-	-
991000027	Plastic Hood with Adapter Ø 750 mm (Round)	-	-	-	-	-	-	-	X	X
991000006	Wooden Balls small Ø 40 mm (70 balls per Set) - non fumigated	-	-	X	-	-	X	-	-	-
991000024	Wooden Balls small Ø 40 mm (70 balls per Set) - fumigated	-	-	X	-	-	X	-	-	-
991000007	Wire Pay Off System (Ø 650 mm - round drum) - Doppel Cone	-	-	-	X	-	-	X	-	-
991000008	Wire Pay Off System (Ø 600 mm - square drum) - Doppel Cone	-	-	-	-	X	-	-	-	-
991000036	Wire Pay Off System (Ø 750 mm - round drum) - Doppel Cone	-	-	-	-	-	-	-	X	X
991000009	Wire Connector with Ceramic inlet, for the Ø 520 / 600 / Ø 650 mm drum (Plastic Hood - Wire Conduit)	-	-	X	X	X	X	X	X	X
991000011	Wire Conduit - MOQ 5 m incl. 2 Plastic PG Connector	-	-	X	X	X	X	X	X	X
X* more mobility in production, use a trolley										
Accessories for 5XXX Series Products										
Item no.	Product description	D 350 Spool Ø 350 mm	K 400 Spool Ø 400 mm	Speed Pac Nano Ø 520 mm	Speed Pac Piccolo Ø 650 mm	Speed Pac Square 600 mm	Speed Pac Standard Ø 520 mm	Speed Pac Grande Ø 650 mm	Speed Pac Gigante L Ø 750 mm	Speed Pac Gigante XL Ø 750 mm
991000003	Plastic Hood Ø 520 mm (Round)	-	-	X	-	-	X	-	-	-
991000004	Plastic Hood 600 mm (Square)	-	-	-	-	X	-	-	-	-
991000005	Plastic Hood Ø 650 mm (Round)	-	-	-	X	-	-	X	-	-
991000027	Plastic Hood with Adapter Ø 750 mm (Round)	-	-	-	-	-	-	-	X	X
991000006	Wooden Balls small Ø 40 mm (70 balls per Set) - non fumigated , by using an inner core in the drum package	-	-	X	-	-	X	-	-	-
991000024	Wooden Balls small Ø 40 mm (70 balls per Set) - fumigated , by using an inner core in the drum package	-	-	X	-	-	X	-	-	-
991000014	Wire Pay Off System (Ø 650 mm) - Single Cone with Orbital Arm	-	-	-	X	-	-	X	-	-
991000015	Wire Pay Off System (Square drum 600 mm) - Single Cone with Orbital Arm	-	-	-	-	X	-	-	-	-
991000026	Wire Pay Off System (Ø 750 mm) - Single Cone with Orbital Arm	-	-	-	-	-	-	-	X	X
991000009	Wire Connector for all drums (Plastic Hood - Wire Conduit) with Ceramic for the blue wire conduit	-	-	X	X	X	X	X	X	X
991000011	Wire Conduit - MOQ 5 m incl. 2 Plastic PG Connector	-	-	X	X	X	X	X	X	X
X* more mobility in production, use a trolley										



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We will join the future.

Safra Aluminium Packaging System

A complete range of accessories for a successful setup of the Safra spool and drum packages

20180404										
Options for all several different Safra drum packages		D 350 spool Ø 350 mm	K 400 spool Ø 400 mm	Speed Pac Nano Ø 520 mm	Speed Pac Piccolo Ø 650 mm	Speed Pac Square 600 mm	Speed Pac Standard Ø 520 mm	Speed Pac Grande Ø 650 mm	Speed Pac Gigante L Ø 750 mm	Speed Pac Gigante XL Ø 750 mm
Optional	For welding longitudinal welds without tangeling wires out of the contact tip / outlet nozzle									
Item no.	Product description	20 kg	40 kg							
9910000016	Wire Straightener two plan (five roller each for 4XXX series wire)	-	-	X	X	X	X	X	X	X
9910000017	Wire Straightener two plan (seven roller each for 5XXX series wire)	-	-	X	X	X	X	X	X	X
9910000028	Mounting plate for wire straightener (9910000016 and 9910000017) on plastic hood (9910000003, 9910000004, 9910000005,	-	-	X	X	X	X	X	X	X
Optional	Wire pay off sytems for Safra drums in order to avoid twisting issues									
Item no.	Product description	20 kg	40 kg							
9910000018	Inner Orbital Arm incl. PTFE Liner (Ø 520 mm)	-	-	X	-		X	-	-	-
9910000019	Inner Orbital Arm incl. PTFE Liner (Ø 650 mm, Square 600 mm drum)	-	-	-	X		-	X	-	-
9910000010	Wire Pay Off System (Ø 520 mm) - Single Cone with Orbital Arm - for 5000 Series Aluminium wire	-	-	X	-	-	X	-	-	-
Optional	For 40 kg / K 400 Spool									
Item no.	Product description	20 kg	40 kg							
9910000020	Wire feeder for K400 (40 kg spool)	-	-	-	-		-	-	-	-
9910000038	Spool adapter for the K 400 spool	-	X	-	-	-	-	-	-	-
9910000037	Spindle with spindle brake for spool adapter K 400 spool	-	X	-	-	-	-	-	-	-
9910000039	Pay-off stand for K 400 or D 350 spools	X	X	-	-	-	-	-	-	-
9910000035	Spindle with spindle brake for holding the D 350 spool	X	-	-	-	-	-	-	-	-
Optional	For welding longitudinale welding seams / installation of a wire conduit lengh over > 10 m									
Item no.	Product description	20 kg	40 kg							
9910000021	Drum rack for drum diameter Ø 520 - 650 mm	-	-	X	X	X	X	X	-	-
9910000029	Trolley for drum diameter Ø 520 - 650 mm	-	-	X²	X²	X²	X²	X²	-	-
9910000030	Mounting plate for the Fronius wire feeder WF25 R2 and R4	-	-	X	X	X	X	X	-	-
9910000031	Complete drum rack for the drum diameter Ø 520 - 650 mm, von 40 - 200 kg Aluminium wire volume (without Fronius feeding unit)	-	-	X	X	X	X	X	-	-
9910000032	Drum rack for drum diameter Ø 750 mm	-	-	-	-	-	-	-	X	X
9910000033	Trolley for drum diameter Ø 750 mm - 250 kg	-	-	-	-	-	-	-	X	X
9910000034	Complete drum rack for the drum diameter Ø 750 mm and 250 kg Aluminium wire volume (without Fronius feeding unit) Item number 9910000032, 9910000033, 9910000030 (optional)	-	-	-	-	-	-	-	X	X

X² more mobility in production, use a trolley

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Our company history

Safran was founded in 1970 by the Sala family in Travagliato near Brescia (Italy).

The Safran group of companies is 100% owned by the Sala family.

In 1997, Safran bought the company MIGWELD in Dijon/France.

With its very high quality and competitiveness, Safran expanded its business worldwide.

In 2001, Safran built the Bralco copper foundry in Salvador de Bahia in Brazil.

This means we control the process chain from strand casting to the finished copper wire electrode alloy.

We can therefore produce customer-specific copper alloys for your application.

Our market presence



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