

Vineyard & Orchard Wires

**HEAVY
COATING**

ARZINCAL®

ARZINCAL®
+3000 HOURS

excellent corrosion resistance
with the lowest elongations on heavy loads

HEAVY COATING



CLASS A

Precise coating mass, excellent corrosion resistance, and long service life.

ARZINCAL®



ZN95 AL5

The unique zinc-aluminum alloy coating of ARZINCAL® provides superior resistance to atmospheric corrosion and chemicals.

ARZINCAL® 3000



ZN90 AL10

Arzincal Plus is the evolution of Arzincal wire and presents a series of additional advantages, including lower elongation, an higher tensile strength, and more resistance to stress.



EXTREME

CORROSION RESISTANCE

Heavy Coating wires are produced by passing through the processes of annealing, acid and flux bath, and zinc dipping in the state-of-the-art galvanizing line, their corrosion resistance, and long service life.

The unique zinc-aluminum alloy coating of ARZINCAL® provides superior resistance to atmospheric corrosion and chemicals. Salt-spray tests prove that the corrosion resistance of Arzincal wire lasts at least five times longer than heavily galvanized wire.

Arzincal Plus, zinc-90 and aluminum-10 alloy coating provide the final product with exceptional protection against cuts and surface scrapes and excellent corrosion resistance for a minimum of 3000 hours ¹.

¹ According to the salt spray test results conducted in the German test laboratory.

**HEAVY
COATING**

ARZINCAL®

ARZINCAL®
+3000
HOURS

TOP-NOTCH MECHANICAL PERFORMANCE

Class A Heavy-coating, ARZINCAL®, and ARZINCAL® 3000 give the final product exceptional **protection against cuts and surface scrapes** through wire coating and let the products **withstand heavy loads with minimal elongation**.



Product of R&D

As a result of R&D studies, Güney Çelik added new dimensions to corrosion resistance with its unique products, such as Class A Heavy-coating, the zinc-aluminum alloy under the brand ARZINCAL® and ARZINCAL® 3000, which has superior corrosion resistance and mechanical properties.



Certified PROTECTION

Compliant with all international standards, Class A Heavy-coating two times, ARZINCAL® five times and ARZINCAL® 3000 provide at least ten times more corrosion resistance¹ than its competitors in the same coating amount.

¹ Proven by laboratory tests accredited by DAkkS (Deutsche Akkreditierungsstelle).



Calculated PERFECTION

All three products reach perfection with high resistance to different climatic conditions, UV rays, and excellent adhesion properties.



Long Lasting SOLUTION

Class A Heavy-coating, ARZINCAL®, and ARZINCAL® 3000 are the most long-lasting solutions for your vineyards or orchards with top quality, best price, and environment-friendly characteristics.



ENVIRONMENT -FRIENDLY & SUSTAINABLE

Despite its excellent adhesive coating and climatic conditions resistance, Class A Heavy-coating, ARZINCAL®, and ARZINCAL® 3000 are environment-friendly products with no interaction in contact and less zinc oxide in the soil.

WE GAVE YOU MOST RELIABLE SOLUTION

For Vineyards and Orchards, the Heavy-coating and ARZINCAL® ranges offer the most comprehensive options over affordable cost-in-use with reliable and sustainable service discipline without compromising quality.



HEAVY COATING

FULL SPECIFICATIONS Class A

DIA (mm)	COATING TYPE	COATING WEIGHT (EN 10244-2)	TENSILE STRENGTH (N/mm ²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Class A	205	1300-1600	max %5	360	1250	10/20 unit of 25 kg
2,00	Class A	215	1300-1600	max %5	450	1000	10/20 unit of 25 kg
2,20	Class A	230	1300-1600	max %5	550	825	10/20 unit of 25 kg
2,50	Class A	245	1300-1600	max %5	710	650	10/20 unit of 25 kg
2,70	Class A	245	1300-1600	max %5	820	550	10/20 unit of 25 kg
3,00	Class A	255	1300-1600	max %5	1000	450	10/20 unit of 25 kg
3,50	Class A	265	1300-1600	max %5	1390	330	10/20 unit of 25 kg

DIA (mm)	COATING TYPE	COATING WEIGHT (EN 10244-2)	TENSILE STRENGTH (N/mm ²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Class A	205	700-900	max %10	200	1250	10/20 unit of 25 kg
2,00	Class A	215	700-900	max %10	250	1000	10/20 unit of 25 kg
2,20	Class A	230	700-900	max %10	300	825	10/20 unit of 25 kg
2,50	Class A	245	700-900	max %10	390	650	10/20 unit of 25 kg
2,70	Class A	245	700-900	max %10	450	550	10/20 unit of 25 kg
3,00	Class A	255	700-900	max %10	560	450	10/20 unit of 25 kg
3,50	Class A	265	700-900	max %10	770	330	10/20 unit of 25 kg

DIA (mm)	COATING TYPE	COATING WEIGHT (EN 10244-2)	TENSILE STRENGTH (N/mm ²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Class A	205	400-550	max %20	125	1250	10/20 unit of 25 kg
2,00	Class A	215	400-550	max %20	155	1000	10/20 unit of 25 kg
2,20	Class A	230	400-550	max %20	185	825	10/20 unit of 25 kg
2,50	Class A	245	400-550	max %20	240	650	10/20 unit of 25 kg
2,70	Class A	245	400-550	max %20	280	550	10/20 unit of 25 kg
3,00	Class A	255	400-550	max %20	345	450	10/20 unit of 25 kg
3,50	Class A	265	400-550	max %20	470	330	10/20 unit of 25 kg



We offer high quality wire for your
Vineyards and Orchards



FULL SPECIFICATIONS

Zinc 95 + Aluminum 5



DIA (mm)	COATING TYPE	COATING WEIGHT (EN 10244-2)	TENSILE STRENGTH (N/mm²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Zn95Al5	206	1300-1600	max %5	360	1250	10/20 unit of 25 kg
2,00	Zn95Al5	216	1300-1600	max %5	450	1000	10/20 unit of 25 kg
2,20	Zn95Al5	230	1300-1600	max %5	550	825	10/20 unit of 25 kg
2,50	Zn95Al5	246	1300-1600	max %5	710	650	10/20 unit of 25 kg
2,70	Zn95Al5	246	1300-1600	max %5	820	550	10/20 unit of 25 kg
3,00	Zn95Al5	256	1300-1600	max %5	1000	450	10/20 unit of 25 kg
3,50	Zn95Al5	256	1300-1600	max %5	1390	330	10/20 unit of 25 kg

DIA (mm)	COATING TYPE	COATING WEIGHT (EN 10244-2)	TENSILE STRENGTH (N/mm²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Zn95Al5	205	700-900	max %10	200	1250	10/20 unit of 25 kg
2,00	Zn95Al5	215	700-900	max %10	250	1000	10/20 unit of 25 kg
2,20	Zn95Al5	230	700-900	max %10	300	825	10/20 unit of 25 kg
2,50	Zn95Al5	245	700-900	max %10	390	650	10/20 unit of 25 kg
2,70	Zn95Al5	245	700-900	max %10	450	550	10/20 unit of 25 kg
3,00	Zn95Al5	255	700-900	max %10	560	450	10/20 unit of 25 kg
3,50	Zn95Al5	255	700-900	max %10	770	330	10/20 unit of 25 kg

DIA (mm)	COATING TYPE	COATING WEIGHT (EN 10244-2)	TENSILE STRENGTH (N/mm²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Zn95Al5	205	400-550	max %20	125	1250	10/20 unit of 25 kg
2,00	Zn95Al5	215	400-550	max %20	155	1000	10/20 unit of 25 kg
2,20	Zn95Al5	230	400-550	max %20	185	825	10/20 unit of 25 kg
2,50	Zn95Al5	245	400-550	max %20	240	650	10/20 unit of 25 kg
2,70	Zn95Al5	245	400-550	max %20	280	550	10/20 unit of 25 kg
3,00	Zn95Al5	255	400-550	max %20	345	450	10/20 unit of 25 kg
3,50	Zn95Al5	255	400-550	max %20	470	330	10/20 unit of 25 kg



We offer high quality wire for your Vineyards and Orchards



EXTREME CORROSION RESISTANCE



FULL SPECIFICATIONS Zinc 90 + Aluminum 10

DIA (mm)	COATING TYPE	COATING WEIGHT	TENSILE STRENGTH (N/mm²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Zn90Al10	min 350	1100-1300	max %4	384	1250	10/20 unit of 25 kg
2,00	Zn90Al10	min 350	1100-1300	max %4	465	1000	10/20 unit of 25 kg
2,20	Zn90Al10	min 350	1100-1300	max %4	601	825	10/20 unit of 25 kg
2,50	Zn90Al10	min 350	1100-1300	max %4	701	650	10/20 unit of 25 kg
2,70	Zn90Al10	min 350	1100-1300	max %4	865	550	10/20 unit of 25 kg
3,00	Zn90Al10	min 350	1100-1300	max %4	1177	450	10/20 unit of 25 kg
3,50	Zn90Al10	min 350	1100-1300	max %4	1350	330	10/20 unit of 25 kg

DIA (mm)	COATING TYPE	COATING WEIGHT	TENSILE STRENGTH (N/mm²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Zn90Al10	min 350	700-900	max %10	224	1250	10/20 unit of 25 kg
2,00	Zn90Al10	min 350	700-900	max %10	271	1000	10/20 unit of 25 kg
2,20	Zn90Al10	min 350	700-900	max %10	350	825	10/20 unit of 25 kg
2,50	Zn90Al10	min 350	700-900	max %10	408	650	10/20 unit of 25 kg
2,70	Zn90Al10	min 350	700-900	max %10	504	550	10/20 unit of 25 kg
3,00	Zn90Al10	min 350	700-900	max %10	686	450	10/20 unit of 25 kg
3,50	Zn90Al10	min 350	700-900	max %10	896	330	10/20 unit of 25 kg

DIA (mm)	COATING TYPE	COATING WEIGHT	TENSILE STRENGTH (N/mm²)	ELONGATION %	BREAK LOAD (kg)	LENGTH (m)	STANDARD PACKAGING
1,80	Zn90Al10	min 350	400-550	max %25	128	1250	10/20 unit of 25 kg
2,00	Zn90Al10	min 350	400-550	max %25	154	1000	10/20 unit of 25 kg
2,20	Zn90Al10	min 350	400-550	max %25	200	825	10/20 unit of 25 kg
2,50	Zn90Al10	min 350	400-550	max %25	233	650	10/20 unit of 25 kg
2,70	Zn90Al10	min 350	400-550	max %25	288	550	10/20 unit of 25 kg
3,00	Zn90Al10	min 350	400-550	max %25	392	450	10/20 unit of 25 kg
3,50	Zn90Al10	min 350	400-550	max %25	512	330	10/20 unit of 25 kg



We offer high quality wire for your
Vineyards and Orchards

TEST REPORT | Your order from 14.04.2022

Order No. 5D22023-9

Received: 14.04.2022

Sample(s) taken by: Customer

Date of Testing: 19.04. - 12.07.2022

Sample(s) suitable for Testing

Sample Description

- > 1 variation of steel samples, with "ARZINCAL2000 Zn-Al-Mg alloy coating with minimum 140g/m²" upon, with the following designations:
 - > Set of samples 5 [fem-no: 5000er]: 5x coated wires with edge clips, dimensions: 200mm

Remark: The designations of the samples have only been communicated after sending the first results!

Description of Inquiry

- > 2000h neutral salt spray test according to DIN EN ISO 9227-NSS:2017-07
- > Visual evaluation on changes in the surface
 - Interim evaluations after 1000h and 1500h NSS test (under wet conditions!)

The samples will be tested in the delivered conditions!

Description of the performed Test Procedure

- > The neutral salt spray test was carried out according to DIN EN ISO 9227-NSS:2017-07 in the device of the Co. Erichsen, Modell 606
 - Test duration: 2000h
 - Test space volume: 400l

Test Report

- > The results of the neutral salt spray test are to be found in the following table.

Sample code		Visual evaluation after		
Customer designation	fem-N°	1000h	1500h	2000h
coated wires with edge clips	5001 - 5005	The tested samples show voluminous zinc corrosion (white rust = WR). There is no base metal corrosion (red rust = RR) visible.	The tested samples show voluminous WR. There is no RR visible. Under wet conditions there are no changes visible compared to the state after 1000h NSS test.	The tested samples show voluminous WR. There is no RR visible on the surface.

Note: The area around the "fem"-label, as well as the cut edges weren't taken into consideration.

With kind regards,
fem Forschungsinstitut Edelmetalle + Metallchemie

Prof. Dr. Holger Kaßner
Director

Patrick Forstner
Person in charge

Parts of this test reports must not be duplicated without agreement of fem. The test results exclusively deal with the investigated samples. Sample residues will be returned. All tests are conducted with accredited testing procedures, except for those tests which are marked by *. For statements of conformity without default decision criteria given by standards/specifications or the customer, the decision rule of the fem is applied (www.fem-online.de/en/content/conformity). If samples are taken by the client, reported results apply to them as received; any deviations are noted separately in the report. By principle, assessments and evaluations are not part of the accreditation. Information on data collection and storage can be found under Privacy Statement on our website.

Compliant with all international standards, ARZINCAL® provide at least five times more corrosion resistance¹ than its competitors in the same coating amount.

¹ Proven by laboratory tests accredited by DAkkS (Deutsche Akkreditierungsstelle).

TEST REPORT | Your order from 14.04.2022

Order No. 5D22023-4

Received: 14.04.2022

Sample(s) taken by: Customer

Date of Testing: 19.04. - 23.08.2022

Sample(s) suitable for Testing

Sample Description

- > 1 variation of steel samples, with "ARZINCAL3000 Zn-Al alloy coating with minimum 350g/m²" upon, with the following designations:
 - > Set of samples 3 [fem-no: 3000er]: 5x coated wires with edge clips, dimensions: 200mm

Remark: The designations of the samples have only been communicated after sending the first results!

Description of Inquiry

- > 3000h neutral salt spray test according to DIN EN ISO 9227-NSS:2017-07
- > Visual evaluation on changes in the surface
 - Interim evaluations after 1000h, 1500h and 2000h NSS test (under wet conditions!)

The samples will be tested in the delivered conditions!

Description of the performed Test Procedure

- > The neutral salt spray test was carried out according to DIN EN ISO 9227-NSS:2017-07 in the device of the Co. Erichsen, Modell 606
 - Test duration: 3000h
 - Test space volume: 400l

Test Report

- > The results of the neutral salt spray test are to be found in the following table.

fem Forschungsinstitut Edelmetalle + Metallchemie
Katharinenstraße 17 · 73525 Schwäbisch Gmünd
Telefon +49 7171 1006-0 · Telefax DW -900
info@fem-online.de · www.fem-online.de
Institutsleiter: Prof. Dr. Holger Kaßner

Bankverbindung:
Kreissparkasse Ostalb
DE11 6145 0050 0440 0303 93
BIC OASPDE6A
UST-IdNr. DE 146754991

Mitglied der Innovationsallianz
Baden-Württemberg innBW · www.innbw.de
Durch die DAkkS nach DIN EN ISO/IEC 17025
akkreditiertes Prüflabor. Die Akkreditierung gilt für
die in der Urkunde aufgeführten Prüfverfahren

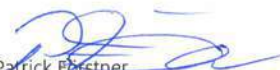
innBW
Deutsche
DAkkS
Akkreditierungsstelle
D-PL 14388-01-00

Sample code		Visual evaluation after		
Customer designation	fem-N°	1000h	1500h	2000h
coated wires with edge clips	3001 - 3005	The tested samples show voluminous zinc corrosion (white rust = WR). There is no base metal corrosion (red rust = RR) visible.	The tested samples show voluminous WR. There is no RR visible. Under wet conditions there are no changes visible compared to the state after 1000h NSS test.	The tested samples show voluminous WR. There is no RR visible. Under wet conditions there are no changes visible compared to the state after 1500h NSS test.
Sample code		Visual evaluation after		
Customer designation	fem-N°	3000h		
coated wires with edge clips	3001 - 3005	The tested samples show voluminous WR, but here is still no RR visible on the surface.		

Note: The area around the "fem"-label, as well as the cut edges weren't taken into consideration.

With kind regards,
fem Forschungsinstitut Edelmetalle + Metallchemie


Prof. Dr. Holger Kaßner
Director


Patrick Forstner
Person in charge

Parts of this test reports must not be duplicated without agreement of fem. The test results exclusively deal with the investigated samples. Sample residues will be returned. All tests are conducted with accredited testing procedures, except for those tests which are marked by *. For statements of conformity without default decision criteria given by standards/specifications or the customer, the decision rule of the fem is applied (www.fem-online.de/en/content/conformity). If samples are taken by the client, reported results apply to them as received; any deviations are noted separately in the report. By principle, assessments and evaluations are not part of the accreditation. Information on data collection and storage can be found under Privacy Statement on our website.

Compliant with all international standards, ARZINCAL® 3000 provide at least ten times more corrosion resistance¹ than its competitors in the same coating amount.

¹ Proven by laboratory tests accredited by DAkKS (Deutsche Akkreditierungsstelle).

TEST REPORT | Your order from 14.04.2022

Order No. 5D22023-4

Received: 14.04.2022

Sample(s) taken by: Customer

Date of Testing: 19.04. - 23.08.2022

Sample(s) suitable for Testing

Sample Description

- > 1 variation of steel samples, with "ARZINCAL3000 Zn-Al alloy coating with minimum 350g/m²" upon, with the following designations:
 - > Set of samples 3 [fem-no: 3000er]: 5x coated wires with edge clips, dimensions: 200mm

Remark: The designations of the samples have only been communicated after sending the first results!

Description of Inquiry

- > 3000h neutral salt spray test according to DIN EN ISO 9227-NSS:2017-07
- > Visual evaluation on changes in the surface
 - Interim evaluations after 1000h, 1500h and 2000h NSS test (under wet conditions!)

The samples will be tested in the delivered conditions!

Description of the performed Test Procedure

- > The neutral salt spray test was carried out according to DIN EN ISO 9227-NSS:2017-07 in the device of the Co. Erichsen, Modell 606
 - Test duration: 3000h
 - Test space volume: 400l

Test Report

- > The results of the neutral salt spray test are to be found in the following table.

fem Forschungsinstitut Edelmetalle + Metallchemie
Katharinenstraße 17 · 73525 Schwäbisch Gmünd
Telefon +49 7171 1006-0 · Telefax DW -900
info@fem-online.de · www.fem-online.de
Institutsleiter: Prof. Dr. Holger Kaßner

Bankverbindung:
Kreissparkasse Ostalb
DE11 6145 0050 0440 0303 93
BIC OASPDE6A
UST-IdNr. DE 146754991

Mitglied der Innovationsallianz
Baden-Württemberg innBW · www.innbw.de
Durch die DAkkS nach DIN EN ISO/IEC 17025
akkreditiertes Prüflabor. Die Akkreditierung gilt für
die in der Urkunde aufgeführten Prüfverfahren

innBW
Deutsche
DAkkS
Akkreditierungsstelle
D-PL 14388-01-00