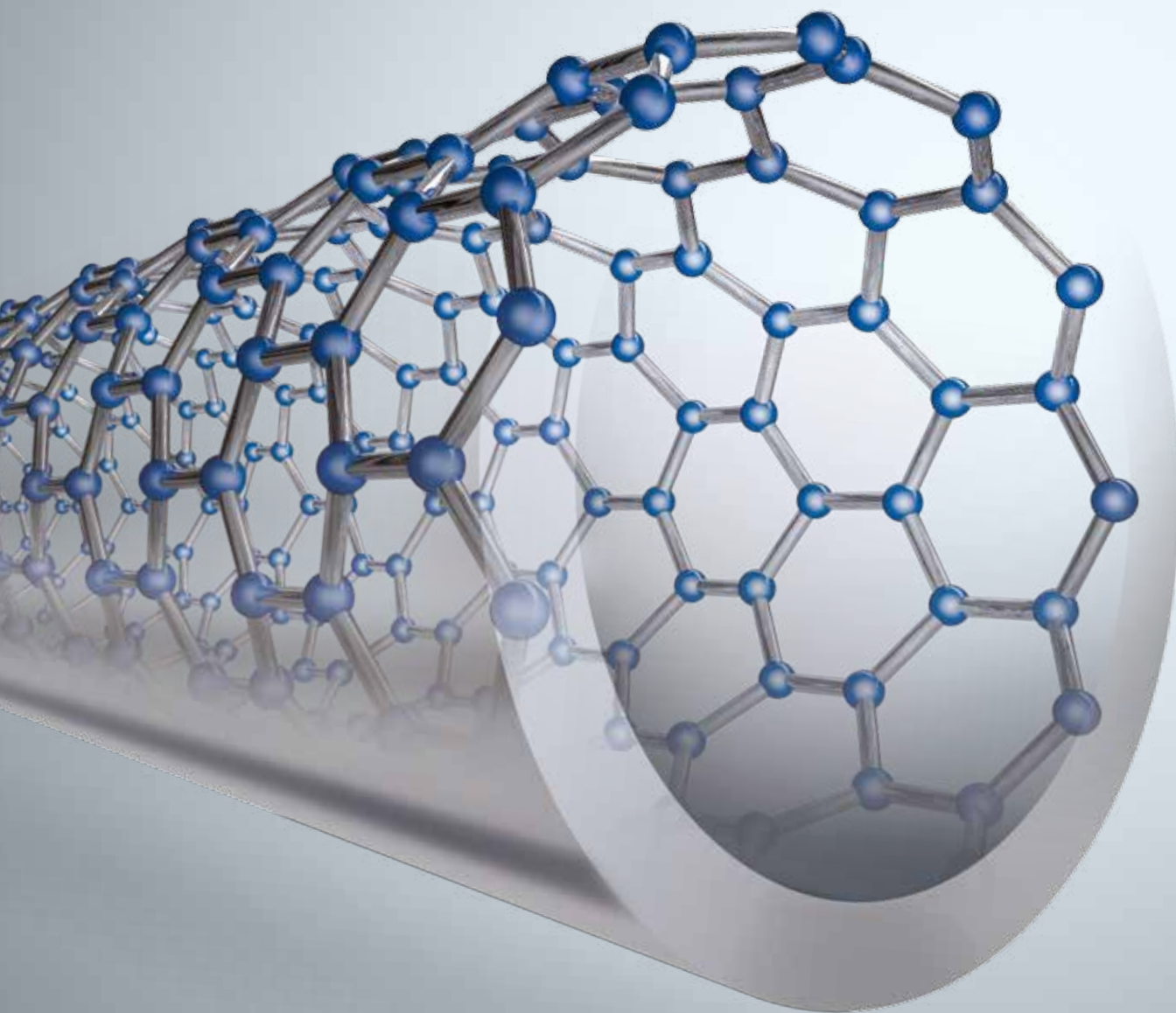


The STRUCTURE of an efficient SYSTEM



Arvedi Tubi Acciaio 
Culture of Excellence

Arvedi

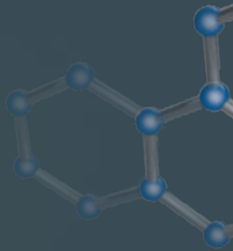
Finarvedi



Carbon steel



Stainless steel



Acciaieria Arvedi



Hot rolled pickled and galvanized carbon steel coils

Arvedi Tubi Acciaio

Culture of Excellence



Black, galvanized and coated carbon steel welded tubes

iltainox



Stainless steel welded tubes

Arinox



Cold rolling of stainless steel precision strip

Metalfer



Cold drawn carbon steel tubes

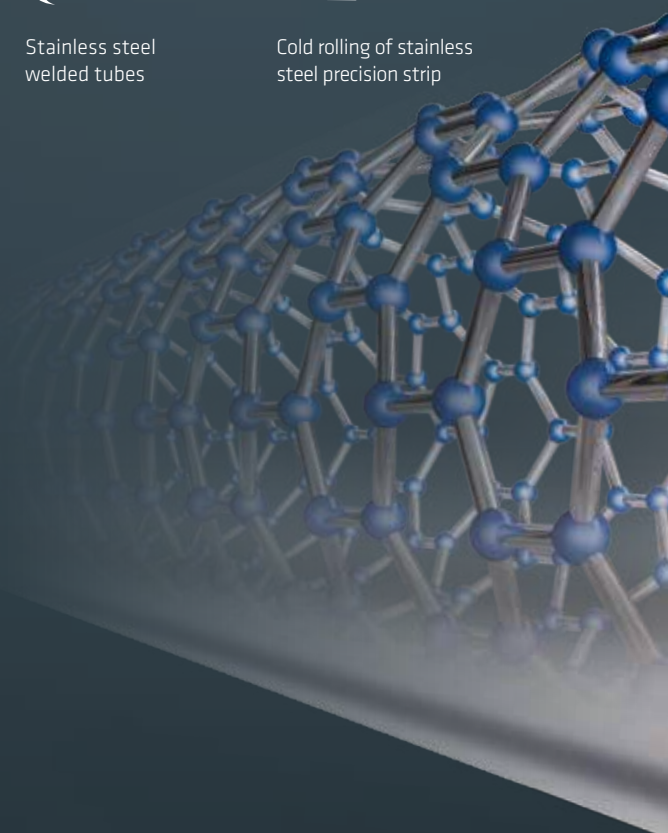
Metalfer Poland

Metalfer Automotive

Arvedi Metalfer Brasil



Welded and cold drawn carbon steel tubes





culture of EXCELLENCE

Determination, creativity and competence

allow man to achieve high levels of progress; but man needs instruments to translate his intellectual intuitions into works.

With determination, creativeness and competence, **ATA** realizes its products which are based on a constant process of technological development, the lifeblood of progress.

We assure to our customers the satisfaction of their specific requirements through the environmentally sustainable production of quality steel tubes, respecting mankind and the environment, combining competence, passion and a spirit of innovation.

ATA Value SYSTEM

Human

The seriousness, honesty and transparency which distinguish us are at the base of our respect for mankind and of the building of relationships of trust, aimed at stimulating the development process.

Expertise

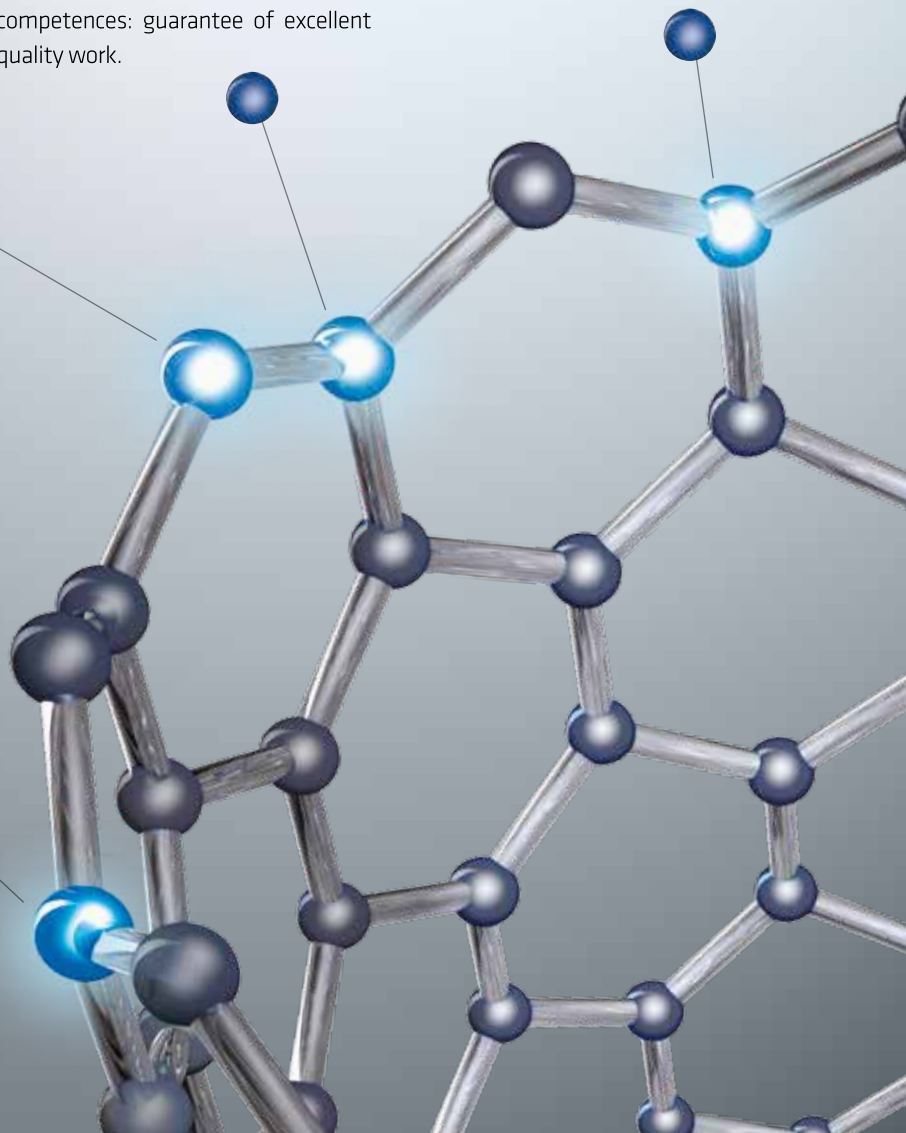
Bringing together the know-how and ability of our staff and the experience **ATA** has acquired in over 40 years of activity has developed specific competences: guarantee of excellent quality work.

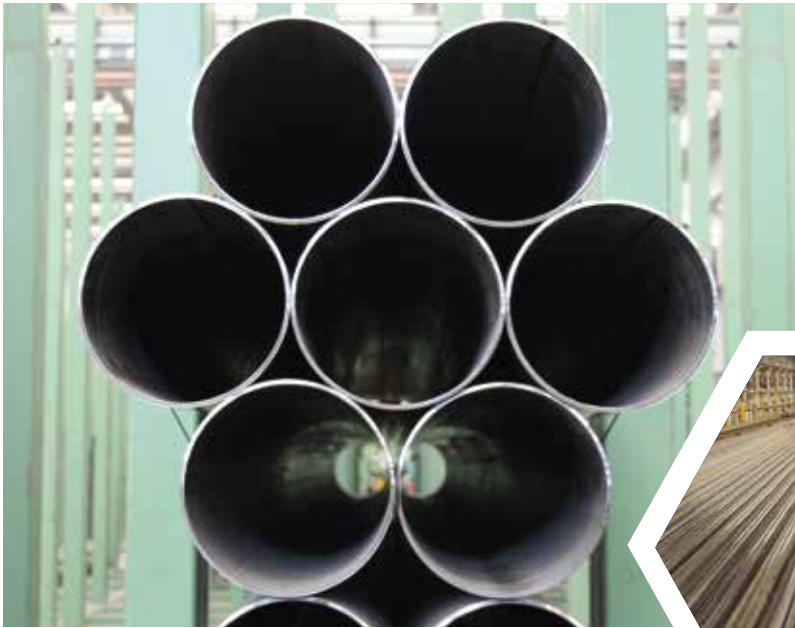
Sustainability

Our work uses natural resources responsibly, so as to protect the health and well-being of the people and the environment in which they live.

Customer care

Control of the supply-chain, together with the pro-activity and competence of our staff, allow us to meet specific requirements with flexibility, willingness and speed.





Glocal

The peculiarities of Made in Arvedi allow us to take advantage of the opportunities offered by global markets, activating a process of development for our area.

Excellence

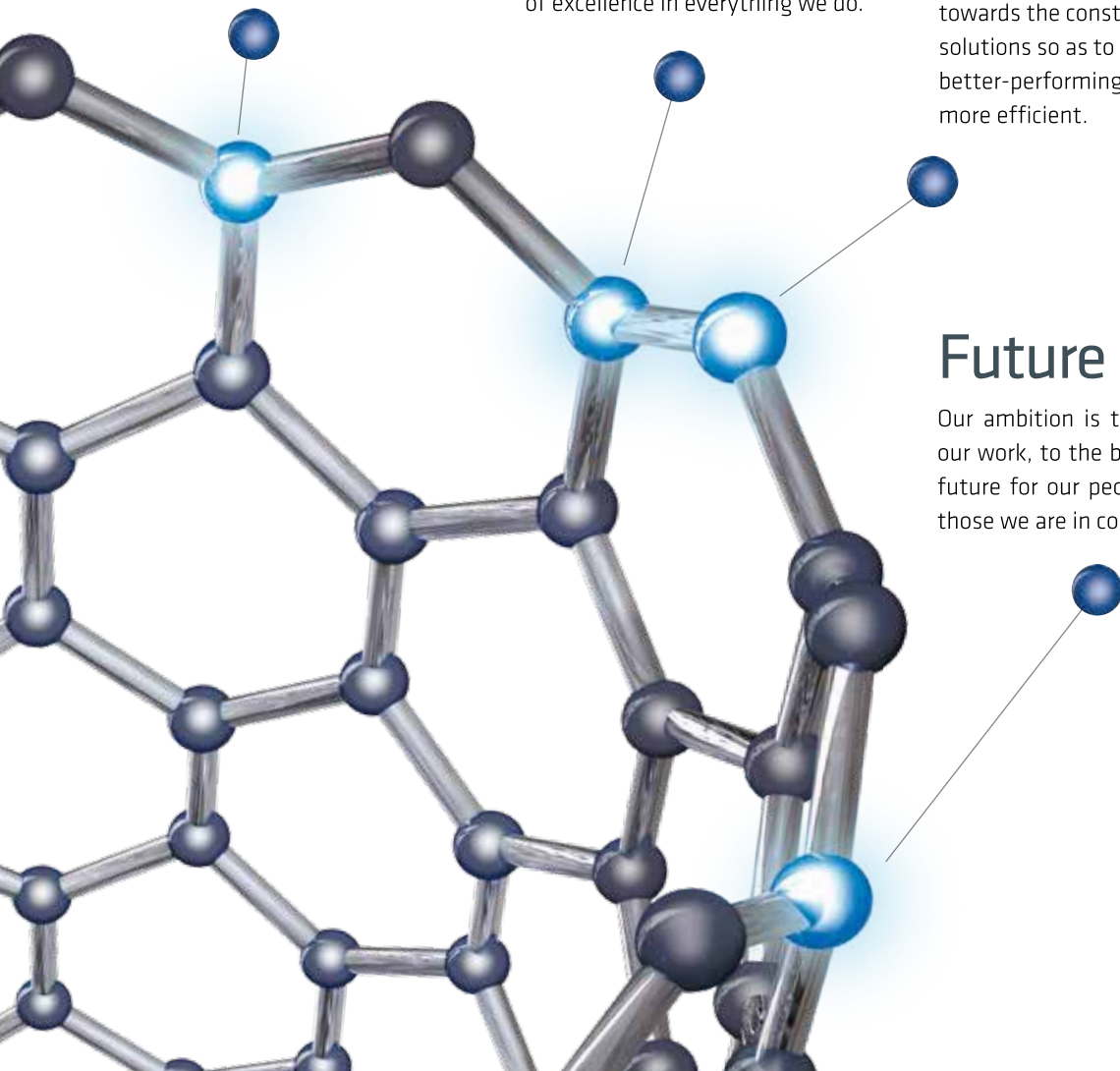
Our work brings together the competence and passion for the world of steel tubes to achieve levels of excellence in everything we do.

Innovation

Our way of working is directed towards the constant search for new solutions so as to make our products better-performing and our process more efficient.

Future

Our ambition is to contribute, with our work, to the building of a better future for our people, our area, and those we are in contact with.



The STRUCTURE of an efficient SYSTEM

Big investments in innovation to produce ever higher quality carbon steel tubes; cutting-edge technologies and production plants to ensure efficiency and environmental sustainability; integration with Acciaieria Arvedi to ensure immediate supplies and the development of tailor made steel grades; work teams composed of highly competent people to offer full support during the whole project, from the definition of the specifications to after-sales assistance.

These are the characteristics of the **Arvedi System: not just excellent quality tubes, but excellence in everything we do.**

Quality

- Certified Quality System
- Fully equipped on-site Laboratory

R&D

- Engineers committed to Customer Support
- FEM (Finite Element Method) Simulation

Vertical integration

- Steel Mill and Tube Mill in one location
- Development of tailor-made steel grades upon request

Sales Network

- Company based Key Account Managers
- Sales Offices Worldwide



CUSTOMER

Human resources

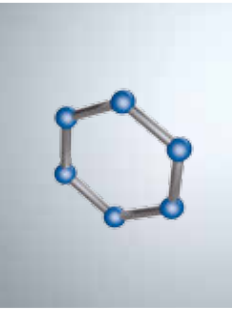
- Competence, Awareness and Training
- Internal “Tube Academy” under development

Stock

- Customer/Project dedicated inventory
- Whole availability of commodity products

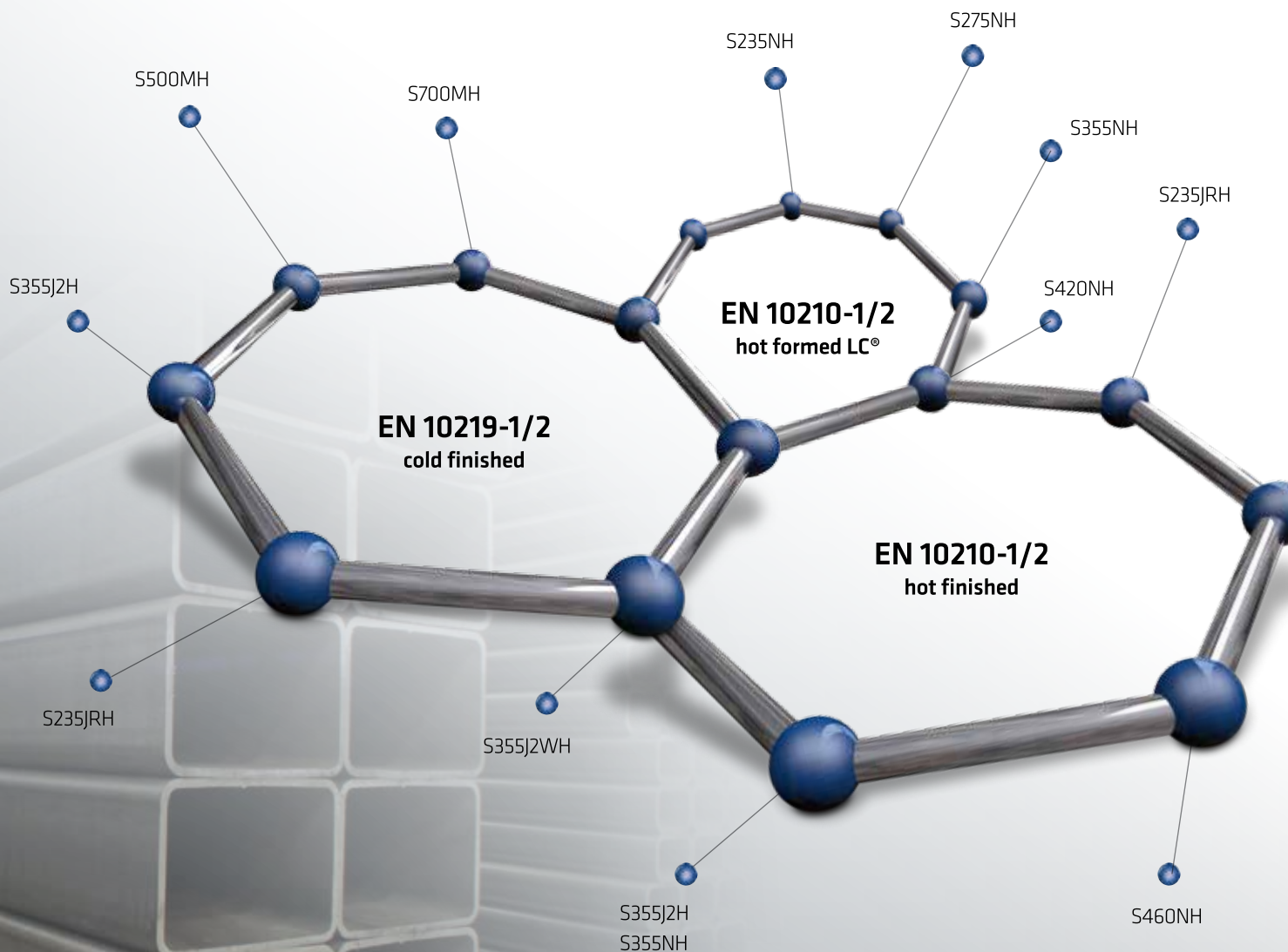
Logistics

- Just-In-Time delivery
- Logistic centers close to End Users



STRUCTURAL purposes

A wide range of solutions for your engineering designs.



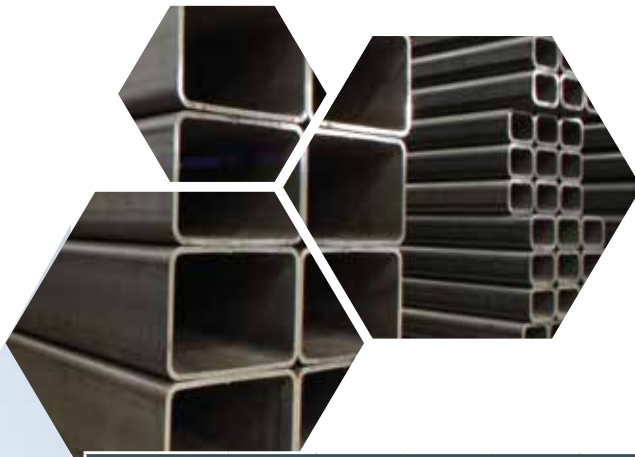
NEW



SQUARE and RECTANGULAR tubes

METRIC SIZE MANUFACTURING PROGRAM

| SQUARE | 4,0 | 4,5 | 5,0 | 6,0 | 8,0 | 10,0 | 12,5 | 14,2 | 16,0 | RECTANG. |
|------------------|-----|-----|-----|-----|-----|------|------|------|------|------------------|
| mm | | | | | | | | | | mm |
| 100 X 100 | | | | | | | | | | 120 X 80 |
| | | | | | | | | | | 120 X 100 |
| 110 X 110 | | | | | | | | | | 140 X 80 |
| 120 X 120 | | | | | | | | | | 150 X 100 |
| | | | | | | | | | | 160 X 80 |
| 140 X 140 | | | | | | | | | | 180 X 100 |
| | | | | | | | | | | 200 X 80 |
| 150 X 150 | | | | | | | | | | 200 X 100 |
| 160 X 160 | | | | | | | | | | 200 X 120 |
| 180 X 180 | | | | | | | | | | 200 X 150 |
| | | | | | | | | | | 250X100 |
| 200 X 200 | | | | | | | | | | 250 X 150 |
| | | | | | | | | | | 250 X 200 |
| | | | | | | | | | | 300 X 100 |
| 220 X 220 | | | | | | | | | | 300 X 150 |
| 250 X 250 | | | | | | | | | | 300 X 200 |
| mm | 4,0 | 4,5 | 5,0 | 6,0 | 8,0 | 10,0 | 12,5 | 14,2 | 16,0 | mm |



IMPERIAL SIZE MANUFACTURING PROGRAM

| SQUARE | | inch | 0.180 | 0.188 | 0.250 | 0.313 | 0.375 | 0.500 | 0.625 | inch | SQUARE | |
|---------------|---------------|------|-------|-------|-------|-------|-------|-------|-------|---------------|---------------|------|
| | | mm | 4,57 | 4,80 | 6,30 | 7,90 | 9,52 | 12,70 | 15,88 | mm | | |
| inch | mm | | | | | | | | | | mm | inch |
| 4"SQ | 101,6 x 101,6 | | | | | | | | | 101,6 x 101,6 | 4"SQ | |
| 4.5"SQ | 114,3 x 114,3 | | | | | | | | | 114,3 x 114,3 | 4.5"SQ | |
| 5"SQ | 127 x 127 | | | | | | | | | 127 x 127 | 5"SQ | |
| 5 1/2" SQ | 139,7 x 139,7 | | | | | | | | | 139,7 x 139,7 | 5 1/2" SQ | |
| 6"SQ | 152,4 x 152,4 | | | | | | | | | 152,4 x 152,4 | 6"SQ | |
| 7"SQ | 177,8x 177,8 | | | | | | | | | 177,8x 177,8 | 7"SQ | |
| 8"SQ | 203,2 x 203,2 | | | | | | | | | 203,2 x 203,2 | 8"SQ | |
| 10"SQ | 254 x 254 | | | | | | | | | 254 x 254 | 10"SQ | |
| inch | mm | | | | | | | | | | mm | inch |

| RECTANG. | | inch | 0.180 | 0.188 | 0.250 | 0.313 | 0.375 | 0.500 | 0.625 | inch | RECTANG. | |
|-----------------|---------------|------|-------|-------|-------|-------|-------|-------|-------|---------------|-----------------|------|
| | | mm | 4,57 | 4,80 | 6,30 | 7,90 | 9,52 | 12,70 | 15,88 | mm | | |
| inch | mm | | | | | | | | | | mm | inch |
| 5" x 3" | 127 x 76,2 | | | | | | | | | 127 x 76,2 | 5" x 3" | |
| 5" x 4" | 127 x 101,6 | | | | | | | | | 127 x 101,6 | 5" x 4" | |
| 6" x 3" | 152,4 x 76,2 | | | | | | | | | 152,4 x 76,2 | 6" x 3" | |
| 6" x 4" | 152,4 x 101,6 | | | | | | | | | 152,4 x 101,6 | 6" x 4" | |
| 6" x 5" | 152,4 x 127 | | | | | | | | | 152,4 x 127 | 6" x 5" | |
| 7" x 3" | 177,8 x 76,2 | | | | | | | | | 177,8 x 76,2 | 7" x 3" | |
| 7" x 4" | 177,8 x 101,6 | | | | | | | | | 177,8 x 101,6 | 7" x 4" | |
| 7" x 5" | 177,8 x 127 | | | | | | | | | 177,8 x 127 | 7" x 5" | |
| 8" x 3" | 203,2x 76,2 | | | | | | | | | 203,2x 76,2 | 8" x 3" | |
| 8" x 4" | 203,2 x 101,6 | | | | | | | | | 203,2 x 101,6 | 8" x 4" | |
| 8" x 6" | 203,2 x 152,4 | | | | | | | | | 203,2 x 152,4 | 8" x 6" | |
| 10" x 4" | 254 x 101,6 | | | | | | | | | 254 x 101,6 | 10" x 4" | |
| 10" x 6" | 254 x 152,4 | | | | | | | | | 254 x 152,4 | 10" x 6" | |
| 12" x 4" | 304,8 x 101,6 | | | | | | | | | 304,8 x 101,6 | 12" x 4" | |
| 10" x 8" | 254 x 203,2 | | | | | | | | | 254 x 203,2 | 10" x 8" | |
| 12" x 6" | 304,8 x 152,4 | | | | | | | | | 304,8 x 152,4 | 12" x 6" | |
| 12" x 8" | 304,8 x 203,2 | | | | | | | | | 304,8 x 203,2 | 12" x 8" | |
| inch | mm | | | | | | | | | | mm | inch |



| 6,5 | 7,0 | 8,0 | 9,0 | 9,5 | 10,0 | 11,0 | 12,5 | 15,0 | 16,0 | Ø OD |
|-----|-----|-----|-----|-----|------|------|------|------|------|--------------------|
| | | | | | | | | | | 17,2 |
| | | | | | | | | | | 19,0 - 20,0 - 21,3 |
| | | | | | | | | | | 25,4 |
| | | | | | | | | | | 26,4 - 26,9 - 28,0 |
| | | | | | | | | | | 30,0 - 30,8 - 32,0 |
| | | | | | | | | | | 33,7 |
| | | | | | | | | | | 35,0 |
| | | | | | | | | | | 38,0 - 40,0 |
| | | | | | | | | | | 42,0 - 42,4 |
| | | | | | | | | | | 44,5 - 45,0 |
| | | | | | | | | | | 48,0 - 48,3 |
| | | | | | | | | | | 50,0 - 50,8 - 51,0 |
| | | | | | | | | | | 54,0 - 56,0 - 57,0 |
| | | | | | | | | | | 60,0 - 60,3 |
| | | | | | | | | | | 63,5 - 65,0 |
| | | | | | | | | | | 70,0 - 72,0 - 73,0 |
| | | | | | | | | | | 76,1 |
| | | | | | | | | | | 80,0 - 82,5 |
| | | | | | | | | | | 88,9 - 90,0 |
| | | | | | | | | | | 100 - 101,6 |
| | | | | | | | | | | 108,0 |
| | | | | | | | | | | 114,3 - 115 |
| | | | | | | | | | | 127,0 |
| | | | | | | | | | | 133,0 |
| | | | | | | | | | | 139,7 |
| | | | | | | | | | | 152,4 |
| | | | | | | | | | | 159,0 |
| | | | | | | | | | | 168,3 |
| | | | | | | | | | | 177,8 |
| | | | | | | | | | | 193,7 |
| | | | | | | | | | | 219,1 |
| | | | | | | | | | | 244,0 |
| | | | | | | | | | | 273,0 |
| | | | | | | | | | | 323,9 |
| 6,5 | 7,0 | 8,0 | 9,0 | 9,5 | 10,0 | 11,0 | 12,5 | 15,0 | 16,0 | |

 COLD FORMED (ERW)
 HOT ROLLED (LC[®])



JUST-IN-TIME

**TAILOR-MADE
SOLUTIONS**



**LOGISTIC
PLATFORMS**

**TECHNICAL
CUSTOMER
SUPPORT**

AUTOMOTIVE

Arvedi Tubi Acciaio is supplier of the most important carmakers and of their subcontractors.

Thanks to a skilled team of engineers and technicians, **ATA** offers **support to the customers during the entire project life**, starting from the choice of steel to the development of the finished product, ensuring an efficient after-sales service.

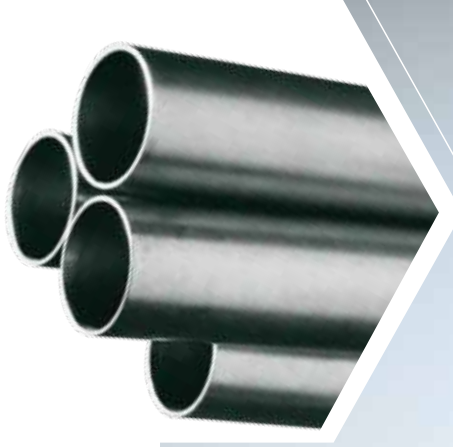
The **integration with Acciaieria Arvedi** guarantees a short lead time

in the raw material supplying and production flexibility.

This allows **ATA** to **develop new projects with special steels** used for their specific requirements, guaranteeing the maximum consistency of performance.

The integration with Metalfer, Metalfer Automotive and Metalfer Poland offers the customer the possibility to receive just-in-time the cut-to-length and pre-processed tube.

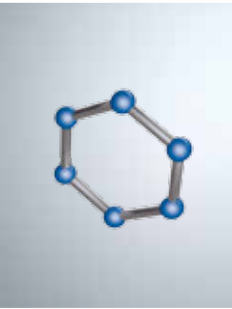




WELDED cold sized tubes for precision application

ERW cold sized tubes are manufactured according to standards **EN 10305-3** and are used as semi-finished products for final applications such as torsion beams and/or suspension arms for front/rear axles, stabilizing bars, cardan shafts, engine supports, side impact bars, cross car beams, dashboard beams and many other tailored made solutions.





MECHANICAL purposes



GSM tubes are used for traditional mechanical purposes, conveying fluid, cold drawing and tunnelling.

They can be manufactured by a hot stretch reducing process, a unique plant that allows the production of **hot rolled tubes (Arvedi LC®)** in steel grades with high mechanical properties and extreme diameter/thickness ratio, or ERW welded and supplied bare or normalized, ensuring an excellent degree of workability.

They are supplied according to standards:

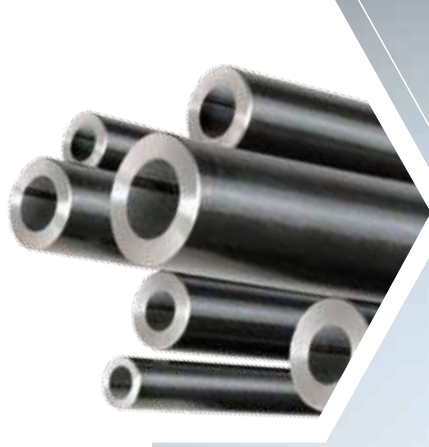
- EN 10296** for tubes for general mechanical purposes
- EN 10210** for tubes for structural purposes
- EN 10217** for tubes for general and pressure purposes

Steel grades S235, S275, S355 basic non-alloy steels
20MnB5, 34MnB5, 38MnB5, C45, C60 quench & tempering steels
C15, C20 hardening steels C35Cr, 25MnCr4, 26Mn5, 28Mn6 alloy steels

GSM tubes are supplied with internal weld bead removed and deburred square-cut plain ends.

On request they can be provided with certificate of conformity as per **EN 10204**.



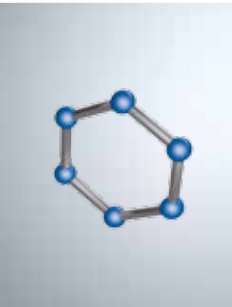


HOLLOWS FOR COLD DRAWING

ATA "hollows for cold drawing" tubes can be manufactured either by an hot stretch reducing process or by an ERW welding line. These tubes can be supplied in different steel grades with high mechanical properties giving an excellent degree of workability, with black or pickled surface, and with a range of thickness from 1,5 to 16 mm.

The diameter/thickness ratio, the precision of the internal scarfing together with the precision properties of the special steels used, can satisfy the most demanding requirements in terms of precision applications in the automotive and hydraulic cylinders markets.





CONSOLIDATION

Self-drilling ANCHOR systems

Arvedi Tubi Acciaio is the leading European manufacturer of hot-rolled tubes for the production of self-drilling anchors, used for strengthening of the walls of galleries and grounds.

Standard steel grades are **Fe55, Fe55mod, 28MN6, 34MNB5, 38MNB5**; **these can be modified in collaboration with the technical departments** of customers to obtain the best performance on site.

Expandable ROCK BOLTING system

These tubes are cold rolled produced to customer design and specification and can be supplied as welded or full body normalized.

MICROPILES

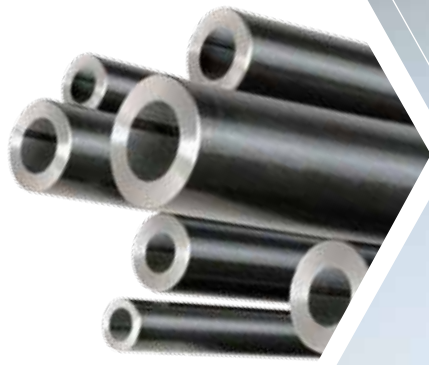
Micropiles are supplied according to **EN 10219** in commercial lengths, debeaded internally, plain end, in the following steel grades:

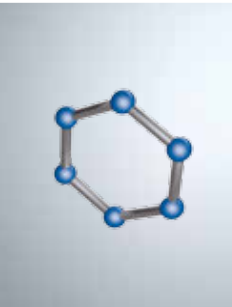
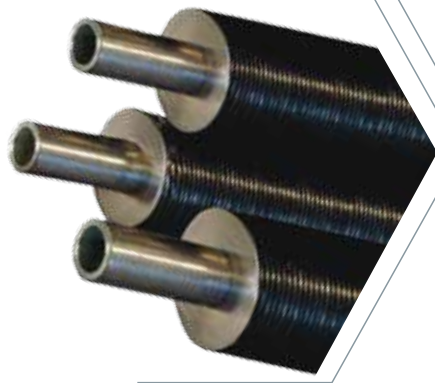
S355J2 - S420MC

S460MC - S500MC

S700MC - N80

For the steel grades specified in the standards, on request **ATA** can supply the product certification **CE** according to European directive 89/106EEC.





BOILERS and HEAT EXCHANGERS

The tubes produced by Arvedi Tubi Acciaio for heat exchangers, are **manufactured in alloy and non-alloy steels**. The excellent end characteristics are reached by using high quality raw material with low levels of impurity and close dimensional tolerances.

This allows better processing during welding, expanding and bending.

Main uses are: boilers, low and high temperature heat exchangers, as well as chemical and petrolchemical purposes.

Reference standards are:

EN 10217-1 for specific products for room temperature

EN 10217-2 for uses at high temperatures

EN 10217-3 for fine grain alloy tubes

EN 10217-4 for uses at low temperatures

ASTM A214 ERW carbon steel heat-exchanger and condenser tubes

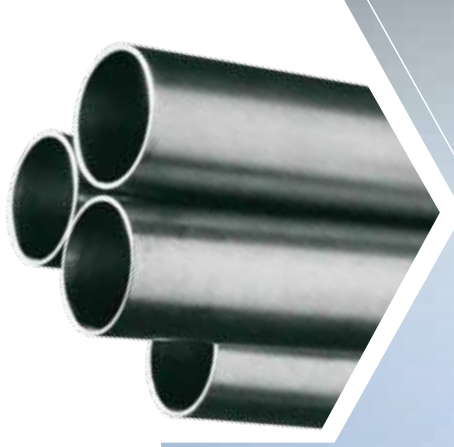
ASTM A178 ERW carbon steel boiler and superheater tubes

Boiler tubes can be supplied in lengths up to 15000 mm:

- welded and calibrated
- normalized in controlled atmosphere
- hot rolled

Arvedi Tubi Acciaio on request can supply PED (pressure equipment directive) certificate in conformity with the European rule n° 97/23/EC.



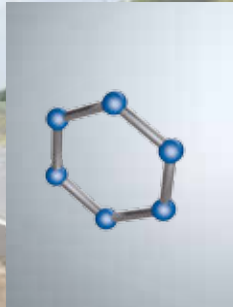


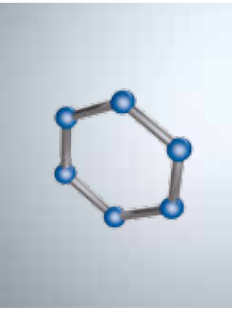
DISTRICT HEATING

ATA delivers District Heating and Cooling Pipes in compliance with the Standard EN 253 and the most severe customer's technical specification.

The pipes can be produced according to the norm EN 10217-1 / 10217-2, Seam Annealed or full body normalized, in Standard Steel Grades or in specific grades in order to guarantee the application in extreme conditions. The pipes can be supplied in the length range between 6000 and 16000mm.

We respect our environment: the steel we use is produced at our own plant in Cremona with a recycle content of more than 70%. The most green pipes you have ever used!





CIVIL AND INDUSTRIAL installations

GAS & WATER

ARVEDI LC®

is the Arvedi trademark that identifies the production of tubes obtained with a hot rolling process according to standard **EN 10255**. These tubes, for water and gas applications, are then hot dip galvanized using SHG zinc with high degree of purity and unleaded.

The galvanized pipes are supplied in accordance with **EN 10240 A1** and **Decree n. 174 of 6/4/04** of

the Ministry of Health regarding all the materials for drinking water distribution. The galvanizing is lead free and the electrolytic zinc used has a purity of 99,99%.

Arvedi LC® tubes can be supplied with the following ends:

- plain, square cut and deburred;
- threaded according to standard **EN 10226-1** with socket according to standard **EN 10241** screwed at one end.



ARVEDI ARCO®

is the brand that identifies the production of pipes, hot rolled and ERW welded, painted with exterior coating in accordance with **EN 10255**. The need to distinguish fluids conveyed in pipes for reasons of layout and safety, led ATA to propose a **pre-painted product** so as to avoid on-site painting at the moment of laying.

They are normally supplied in the following colours:

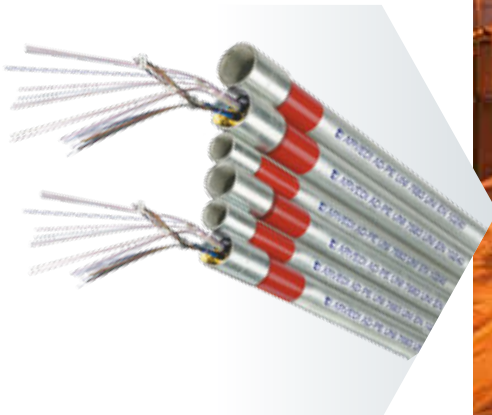
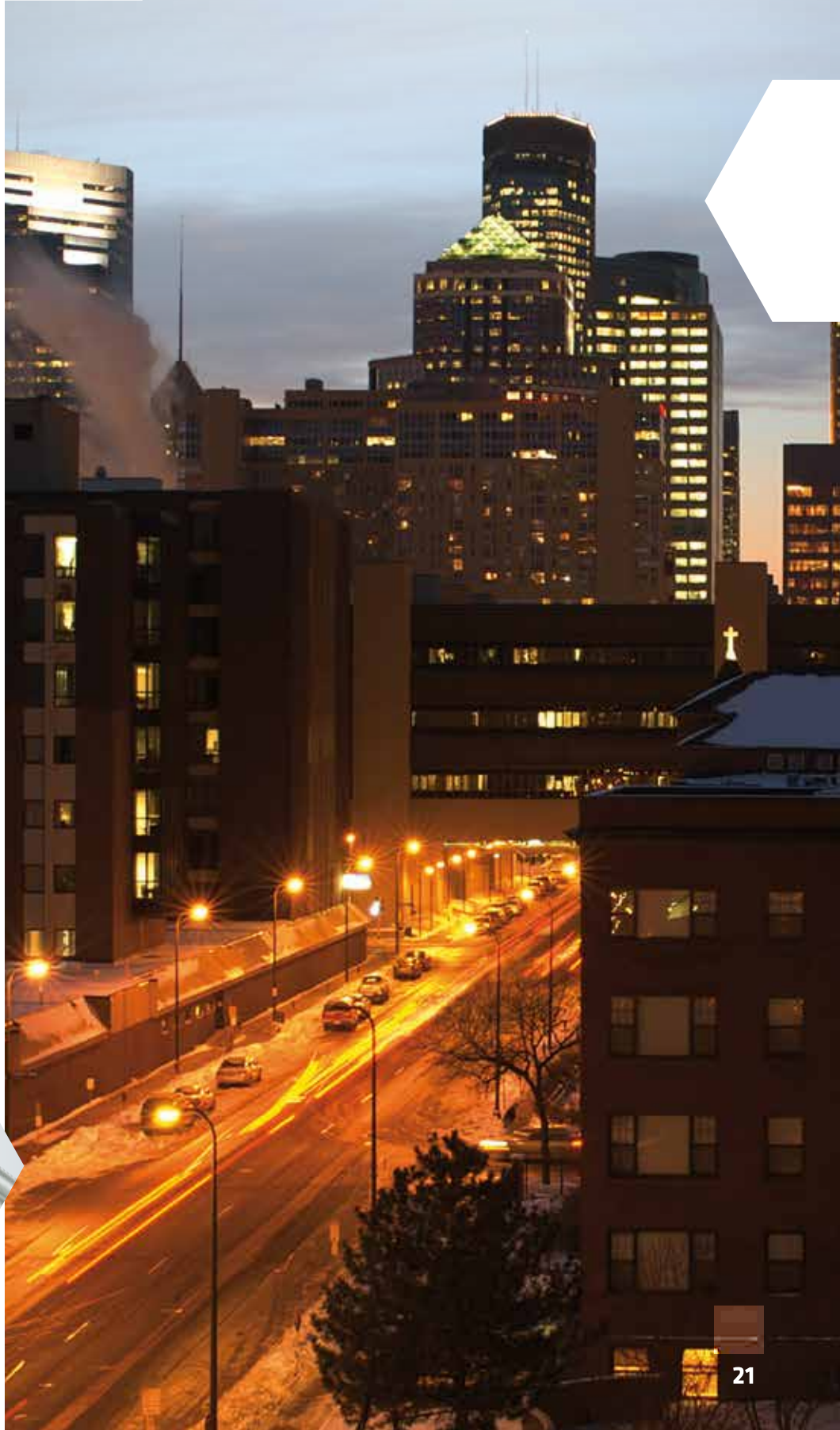
- RED (RAL 3000) mainly for industrial and civil installations of fire protection systems;
- GREEN (RAL 6001) used for civil and industrial installations;
- YELLOW (RAL 1021) used for the distribution of natural gas;
- RED BROWN (RAL 3009) used for industrial and civil installations of fire protection systems;
- Other colours available on request (RAL 5021, RAL 7012, etc.).

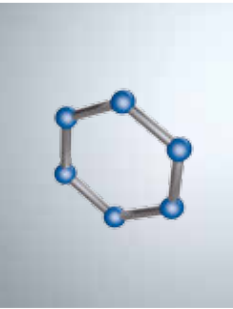
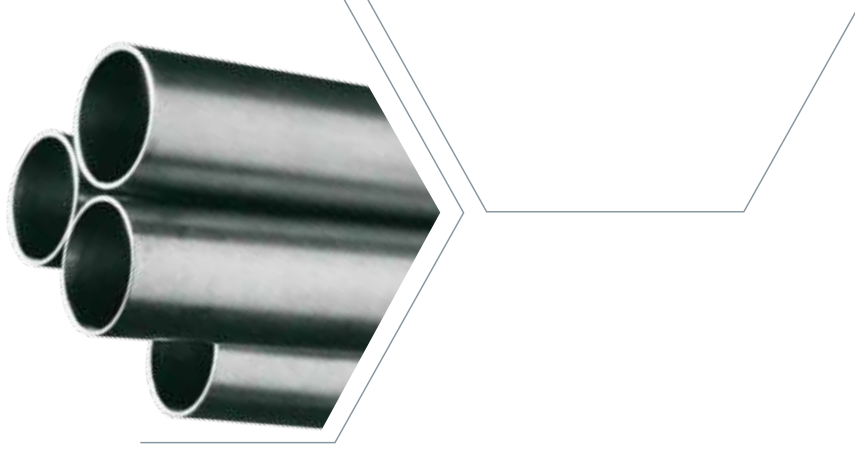




AD-PE

The use of Arvedi LC® conduits when installing **flame-proof and explosion-proof safety electrical equipment (AD-PE)** allows highly reliable systems to be built in compliance with the current legislation and standards (**Law No. 186 of 1/03/1986 CEI 64-2, no. 319**). **Arvedi conduits are produced according to UNI 7683 standard.** Made with steel grade Fe360 and subsequently hot dip galvanized in accordance with standard **EN 10240**, Conduit internal surface is smooth and deburred; the pipes are supplied in lengths of 6 m. Tubes ends are tapered threaded (**UNI 6125**). An **AD UNI 7684** die-stamped socket is threaded onto one end of the pipe while the other end is protected with a plastic cap.





LINE PIPE

Arvedi Tubi Acciaio uses **high-quality carbon steels** which are represented by excellent physical and mechanical properties. The repetition of such features allows high quality welding and working processes when installing the tubes. Line pipe is produced by longitudinal welding (HF) from hot rolled strip and meets the requirements of standard **EN 10224** (water pipes) and **ISO 3183** (methane lines).

- Arvedi Gysko pipes
- Water pipes
- Methane line pipes

External coatings:

- polyethylene

Internal coatings (water pipes only):

- Epoxy paint



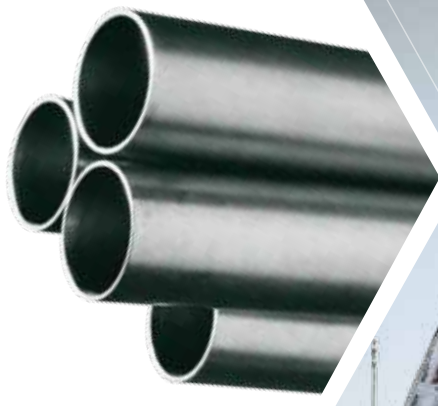
API 5L

Line pipe is suitable for use in conveying gas, water and oil, in both the oil and natural gas industries; they are supplied according to standard **API 5L and ISO 3183**.

ATA manufactures line pipe using a high frequency induction electric welding process (HFW) without the addition of filler materials.

The range of production is up to 6”.





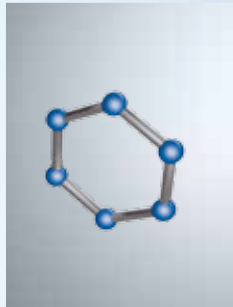
OCTG TUBING AND CASING API 5CT

OCTG tubing and casing are used for drilling processes and oil production; they are supplied according to standard **API 5CT** and **ISO 11960**.

ATA manufactures **OCTG** tubing and casing using an electric welding process (EW).

After welding:

- tubing in sizes up to 3" 1/2 are hot stretch reduced;
- tubing in sizes over 3" 1/2 are seam annealed and/or full body normalized.





ISO 9001:2009
ISO/TS 16949
ISO 14001
OHSAS 18001

UNI ISO 50001
Planned for 2014



SL-0293
SC-0392



The ENVIRONMENT: a certified passion.

The **OHSAS 18001** certified management system involves the ownership, management and all employees in a program of continuous improvement to ensure the safety and health of workers.

Arvedi Tubi Acciaio's commitment to the protection of the environment is evidenced not only by the constant monitoring and strict compliance with the emission standards imposed by national laws and decrees of regional and local governments, but also that it was among **the first Italian companies to get the environment certificate ISO 14001**. A special effort is oriented to energy saving. Significant improvements in obtaining recyclable products through more effective and efficient processes have been obtained thanks to the **ISO TS 16949**.

Over **90%** of waste from manufacturing is targeted for recovery

Thanks to recycling systems, the removal from water sources is less than **15%** of the production cycle

Thanks to the filters, the gas emissions are up to **10** times less of the legal limits

Liquid pollutant emissions are up to **30** times less of the legal limits.



SALES NETWORK

 **Head quarter and production site:**

Arvedi Tubi Acciaio SpA
Via Acquaviva, 3 Zona Porto Canale
26100 Cremona (Italy)
Tel. +39 0372 4091
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