

Exhaust hangers



**Swiss
Steel**
Group



Ugitech offers a wide range of wires and bars for the production and manufacture of support parts for exhaust systems (exhaust hangers).

During the production of these wires, special attention is focused on the points that ensure a perfect finish to the exhaust hangers.

- Chemical analysis.
- Mechanical properties.
- Weldability and corrosion resistance.
- Surface finish.
- Diameter and tolerances.
- Packaging.

Chemical analysis

Ugitech manufactures a wide range of products that meet the requirements of the exhaust hangers market.

Our fully integrated manufacturing process allows us to ensure stable analyses guaranteed for a regular and homogeneous behavior of the wire.

			C	Si	Mn	Cr	Ni	Nb	Ti
Austenitic grades	UGI® F4307	304L	0.03	1.00	1.00 / 1.50	18.0 / 19.0	9.20 / 10.0		
	UGI® F4511	430LNb	0.02	0.50	0.60	16.0 / 17.0		12xC / 0.30	
Ferritic grades	UGI® F4601L	409Cb	0.05	0.30 / 0.70	0.30 / 0.80	11.0 / 12.0		10xC / 0.60	
	UGI® F4601LG	409CbNi	0.05	0.30 / 0.70	0.30 / 0.80	11.0 / 12.0	0.75 / 1.00	10xC / 0.60	
	UGI® F4512	409	0.02	0.50	0.30 / 0.80	11.0 / 12.0			6xC / 0.75

- All these grades have excellent properties for cold forming.
- UGI® F4307: Excellent corrosion resistance associated with very good cold forming properties. This grade may be subject to price fluctuations linked to raw material.
- Stabilization of the grades with Niobium or Titanium eliminates the risk of sensitization of the structure during welding operations.
- Ferritic stainless steels are not sensitive to stress corrosion, moreover, due to their low Nickel content, they are only slightly affected by price fluctuations linked to raw material.
- 4601LG should be preferred to 4601L when exposed to more aggressive environments (wet or marine areas, regions subject to winter salting, etc.)
- When welding heavy thicknesses, stabilization with Titanium will guarantee a fine grain structure in the welded zone.
- Stabilization with Niobium, on the other hand, guarantees a structure with less risk of sensitization.

Mechanical properties

The narrow range of mechanical properties and the low strain hardening if the wire allow an easy bending of the manufactured parts.

			UTS (MPa)
Austenitic grades	UGI® F4307	304L	650 / 850 ¹
	UGI® F4511	430LNb	500 / 700 ¹
Ferritic grades	UGI® F4601L	409Cb	520 / 720 ¹
	UGI® F4601LG	409CbNi	520 / 720 ¹
	UGI® F4512	409	450 / 650 ¹

Weldability and corrosion resistance

Ugitech offers a wide range of austenitic and ferritic grades allowing welding operations without risk of cracking or intergranular corrosion.

Surface finish

The wire offered by Ugitech follows a specific process route that guarantees a regular surface finish in order to limit the risks of surface corrosion and allowing an easy to use in forming machines.

The wire can be cleaned or lubricated.



Diameters and tolerances

Our Wires ²	Diameters	Tolerance
UGI® F4307	304L	
UGI® F4511	430LNb	
UGI® F4601L	409Cb	5.00mm / 14.00mm* Tolerance 9
UGI® F4601LG	409CbNi	
UGI® F4512	409	

* Other diameters on request.

Packaging

Forming wires for the "Exhaust hangers" end-use are delivered in 500 kg or 1000 kg wrapped coils.

On request, a cardboard core can be used in the center of the spool.

The coils can be delivered in clockwise or counterclockwise winding.



1_ UTS ranges given as an indication, to be specified on a case-by-case basis according to the need.

2_ Also available in polished drawn bars, diameters 3 to 30 mm h9

3_ For other packaging, please contact us.



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