

Lasting Connections

# BÖHLER WELDING FILLER MATERIAL – SELECTION





voestalpine Böhler Welding www.voestalpine.com/welding

# BÖHLER SELECTION – AWS COVERED ELECTRODES, TIG RODS, SOLID WIRES AND CORED WIRES

Under the product name BÖHLER AWS we offer a selection of high quality, easy to deal with and highly competitive welding consumables. They come in our blue Böhler packaging, known for quality products inside, easy to select the right type from the outside.

For the MIG wires you can select between Böhler BS300 steel basket spool and S300 Plastic spool, depending on your customers' needs. All welding consumables of this range are approved by several certified bodies as TÜV and DB. They all carry our CE mark.

For more demanding applications requiring specific approvals or drum solutions you always have the choice within the world wide unique product portfolio of top-products is available in addition, coming with the outstanding support of our application and material specialists.

### STICK ELEKTRODES

Product Name EN ISO AWS	<b>Ø / L</b> [mm]	Articel- No.	Wst Nr.	Weight [kg]	Welding Positions	Approvals	Customer Benefits/ Advantages
<b>BÖHLER AWS E6013</b> EN ISO: E 42 0 RC 1 1 AWS: E6013	2.0 × 300 2.5 × 300 2.5 × 350 3.2 × 350 4.0 × 350 5.0 × 450	81517 82210 81518 81520 81523 81523		4.1 4.0 5.0 5.0 5.0 6.9	÷‡‡↓	TÜV (12680), ABS, DNV, CE	<ul> <li>Excellent gap bridging and arc stiking</li> </ul>

Rutile-cellulosic electrode with good weld ability in all positions including vertical down. Excellent gap-bridging and arc-striking ability. For tack welding and load fit ups. General purpose for industry and trade, assembly and shop welding.

<b>BÖHLER AWS E7018-1</b> EN ISO: E 42 5 B 4 2 H5 AWS: E7018-1H4	$\begin{array}{c} 2.0 \times 250 \\ 2.5 \times 300 \\ 2.5 \times 350 \\ 3.2 \times 350 \\ 4.0 \times 450 \\ 5.0 \times 450 \end{array}$	81499 82205 81500 81501 81502 81503	2.8 3.4 4.1 4.2 5.9 5.6	TÜV (12451), ABS, BV (Ø2.0-5.0 mm), DNV, GL (Ø2.0-5.0 mm), CWB (Ø2.0-6.0 mm), CE	» F     	For high carbon steels, buffer layers and positional welding High recovery of 110 %
<b>BÖHLER AWS E7018-1</b> Dry System EN ISO: E 42 5 B 4 2 H5 AWS: E7018-1H4	2.5 × 350 3.2 × 450 4.0 × 450 5.0 × 450	34507 34606 34607 34615		TÜV (12451), ABS, BV (Ø2.0-5.0 mm), DNV, GL (Ø2.0-5.0 mm), CWB (Ø2.0-6.0 mm), CE	> [ r t 0 > 1 > 2 > 2	Low hydrogen content of weld metal garanteed – necessary to avoid hydrogen induced cracking No cost for klimatised storage and handling or re-drying Simple distribution to the welders

Basic coated electrode engineered for high-quality welds. Excellent strength and toughness properties. Also suitable for welding steels with low purity and high carbon content. Metal recovery > 110 %. Good weldability in out-of-position work except for vertical-down. Suitable for welding in steel construction, boiler and container fabrication, vehicle construction, shipbuilding, and machine construction as well as for buffer layers when building up on high carbon steels.

BÖHLER AWS E308L-17         2.5 × 300         75299         3.9         TÜV (10647),         » For welding of stainless steel           8.0 N ISO: E 19 9 L R 3 2         4.0 × 350         75300         4.4         4.6         TÜV (10647),         Note that the stainless steel           8.0 N ISO: E 19 9 L R 3 2         4.0 × 350         75301         4.6         ABS, CE         Nax. service temperature 350 °C						
AWS: E308L-17	<b>BÖHLER AWS E308L-17</b> EN ISO: E 19 9 L R 3 2 AWS: E308L-17	2.5 x 300 3.2 x 350 4.0 x 350	75299 75300 75301	3.9 4.4 4.6	TÜV (10647), GL (4306), ABS, CE	<ul> <li>» For welding of stainless steel 1.4306/304L or 304LN.</li> <li>» Max. service temperature 350 °C</li> <li>» Good weldability in all positions, self releasing slag</li> </ul>

Low carbon, core wire alloyed austenitic electrode with rutile coating used for 304L/304LN steel grades as well as higher carbon grades or ferritic 13 % chromium steels. Outstanding welding characteristics, fine rippled weld-bead surface, excellent weld ability on AC. High hot cracking resistance of the weld metal. Excellent out-of-position welds, self-detaching slag with no residues, and moisture resistant coating. Resistant to intergranular corrosion up to 350 °C.

Product Name	Ø/L	Articel- No.	Wst Nr.	Weight	Welding Positions	Approvals	Customer Benefits/ Advantages			
EN ISO AWS	[mm]			[kg]						
<b>BÖHLER AWS E309L-17</b> EN ISO: E 23 12 L R 3 2 AWS: E309L-17	2.5 × 300 3.2 × 350 4.0 × 350	75305 75306 75308	1.4332	4.1 4.5 4.6		ABS, CE	<ul> <li>» For joining austenitic to carbon steel and bufferlayers</li> <li>» Operating temperature from -60 °C to 300 °C</li> <li>» AC and DC operation. Good weldability in all positions, self releasing slag</li> </ul>			
Rutile electrode of type E 23 12 L / 309L providing increased delta ferrite contents (FN ~17) in the weld deposit for safe and crack resistant dissimilar joint welds and surfacing. BÖHLER AWS E309L-17 is noted for its superior welding characteristics and metallurgy. It can be used on AC and DC. Other advantages include high current carrying capacity, minimum spatter formation, self-releasing slag, smooth and clean weld profile, safety against formation of porosity due to the moisture resistant coating and its packaging into hermetically sealed tins. Operating temperature from -60 °C to +300 °C and for weld claddings up to +400 °C.										
BÖHLER AWS E316L-17	2.5 × 300 3.2 × 350 4.0 × 350	75312 75313 75314	1.4430	4 4.5 4.7		TÜV (10648), GL (4571), ABS, CE	<ul> <li>» For welding of stainless steel 1.4404/316L</li> <li>» Max. service temperature 400 °C</li> <li>» AG and PC apparation Good</li> </ul>			

EN ISO: E 19 12 3 L R 3 2 AWS: E316L-17

Rutile electrode, core wire alloyed stainless steel. Preferably used for 1.4435 / 316L steel grades. BÖHLER AWS E316L-17 is an acknowledged world leader, noted for its superior welding characteristics and metallurgy. It can be used on AC or DC. Other advantages include high current capacity, minimum spatter formation, self-releasing slag, smooth and clean weld profile, safety against formation of porosity due to moisture resistant coating and packaging into hermetically sealed tins. The fully alloyed core wire ensures the most reliable corrosion resistance. Resistant to intergranular corrosion up to +400 °C.

#### TIG RODS, STAINLESS (MARKING ON BOTH SIDES AND BOTH ENDS)

Product Name	Ø/L	Articel- No.	Wst Nr.	Weight	Approvals	Customer Benefits/ Advantages
EN ISO Classification AWS Classification	[mm]			[kg]		
<b>BÖHLER AWS ER307</b>	1.6 x 1000 2.0 x 1000 2.4 x 1000	14527 14573 14540	1.4370	4 x 5 kg	TÜV (18919), DB (43.132.60), CF	<ul> <li>» For joining unalloyed/low-alloy or Cr-steels/cast steel grades to austenitic steels</li> </ul>
EN ISO 14343-B: SSZ307 AWS: A 5.9: ER307(mod.)	3.2 × 1000	32669				<ul> <li>» Application temperature max. 300 °C</li> </ul>

TIG rod of G 18 8 Mn / ER307 (mod.) type for joining and surfacing applications with heat resistant Cr-steels and heat resistant austenitic steels. Well-suited for fabricating dissimilar austenitic-ferritic joints at a max. application temperature of 300 °C. For joining unalloyed / low-alloyed or Cr-steels to austenitic steels. Low heat input required in order to avoid brittle martensitic transition zones.

BÖHLER AWS ER308L	1.0 x 1000 1.2 x 1000	40677 40679	1.4316	4 x 5 kg	TÜV (12939), DB (43.132.40),	<ul> <li>» Max. service temperature 350 °C</li> <li>» High toughness down to -196 °C</li> </ul>
EN ISO 14343-A: W 19 9 L EN ISO 14343-B: SS308L AWS: A 5.9: ER308L	1.6 x 1000 2.0 x 1000 2.4 x 1000 3.2 x 1000	85565 13751 85566 85567			CE	

TIG rod of W 19 9 L / ER308L type for joining and surfacing applications with matching and similar stabilized and non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 18/8 CrNi(N)-steels and cast steel grades. The wire shows very good wetting characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 350 °C.

BÖHLER AWS ER308LSi	1.6 x 1000 2.0 x 1000	30878 30882	1.4316	4 x 5 kg	CE	<ul> <li>» Max. service temperature 350 °C</li> <li>» High toughness down to -196 °C</li> </ul>
EN ISO 14343-A: W 19 9 LSi EN ISO 14343-B: SS308LSi AWS: A 5.9: ER308LSi	2.4 x 1000 3.2 x 1000	30880 30881				

TIG rod of G 19 9 L Si / ER308LSi type for joining and surfacing applications with matching and similar stabilized and non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 18Cr8Ni(N)steels and cast steel grades. The wire shows very good wetting and feeding characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 350 °C.

» AC and DC operation. Good

releasing slag

weldability in all positions, self

Product Name	Ø/L	Articel- No.	Wst Nr.	Weight	Approvals	Customer Benefits/ Advantages
AWS Classification	[mm]			[kg]		
BÖHLER AWS ER309L	1.6 x 1000 2.0 x 1000 2.4 x 1000	85568 13755 85569	1.4332	4 x 5 kg	TÜ∨ (12941), CE	» Service temperature -80 °C to 300 °C
EN ISO 14343-B: SS309L AWS: A 5.9: ER309L	3.2 x 1000	85570				

TIG rodf of type 309L / 23 12 L for welding dissimilar joints with an average ferrite content 16 FN. Well suited for depositing intermediate layers when welding cladded materials. Due to the high ferrite content, the weld metal is less susceptible to hot-cracking. Suitable for service temperatures between -80 °C and 300 °C.

BÖHLER AWS ER316L	1.0 × 1000 1.2 × 1000	32674 32680	1.4430	4 x 5 kg	TÜV (12940), DB (43.132.41),	<ul> <li>» Max. service temperature 400 °C</li> <li>» High toughness at -196 °C</li> </ul>
EN ISO 14343-A: W 19 12 3 L EN ISO 14343-B: SS316L AWS: A 5.9: ER316L	1.6 x 1000 2.0 x 1000 2.4 x 1000 3.2 x 1000	85571 13769 85572 85573			CE	

TIG rod of W 19 12 3 L / ER316L type for joining and surfacing application with matching and similar non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 17Cr-12Ni-2Mo-steels and cast steel grades. Excellent weld metal toughness down to -196 °C. Resistant to intergranular corrosion. Resistant to intergranular corrosion up to 400 °C.

BÖHLER AWS ER316LSi	1.6 x 1000 2.0 x 1000	31112 31169	1.4430	4 x 5 kg	CE	<ul> <li>» Max. service temperature 400 °C</li> <li>» High toughness at -196 °C</li> </ul>
EN ISO 14343-A: W 19 12 3 LSi EN ISO 14343-B: SS316LSi AWS: A 5.9: ER316LSi	2.4 x 1000 3.2 x 1000	31196 31381				

TIG rod of G 19 12 3 L Si / ER316LSi type for joining and surfacing application with matching and similar non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 17Cr-12Ni2Mo-steels and cast steel grades. The wire shows very good wetting and feeding characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 400 °C.

#### SOLID WIRES, STAINLESS

Product Name	ø	Articel- No.	Wst Nr.	Spool Weight	Approvals	Customer Benefits/ Advantages
EN ISO Classification AWS Classification	[mm]			[kg]		
BÖHLER AWS ER307	0.8 1.0	14543 14544	1.4370	BS300 / 15 wire basket	TÜV (18920), DB (43.132.59),	» For joining unalloyed/low-alloy or Cr-steels / cast steel grades to
EN ISO 14343-A: G 18 8 Mn AWS: A 5.9: ER307 (mod.)	1.2 1.6	14545 14546			CE	austenitic steels » Max. service temperature 300 °C

Solid wire of G 18 8 Mn / ER307 (mod.) type for joining and surfacing applications with heat resistant Cr-steels and heat resistant austenitic steels. Well-suited for fabricating dissimilar austenitic-ferritic joints at a max. application temperature of 300 °C. For joining unalloyed / low-alloyed or Cr-steels to austenitic steels. Low heat input required in order to avoid brittle martensitic transition zones.

BÖHLER AWS ER308LSi	0.8 0.9	86278 86279	1.4316	BS300 / 15 wire basket	TÜV (12936), DB (43.132.38),	<ul> <li>» Max. service temperature 350 °C</li> <li>» High toughness down to -196 °C</li> </ul>
EN ISO 14343-A: G 19 9 LSi EN ISO 14343-B: SS308LSi AWS: A 5.9: ER308LSi	1.0 1.2 1.6	86280 86281 86282			CE	

Solid wire of G 19 9 L Si / ER308LSi type for joining and surfacing applications with matching and similar stabilized and non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 18Cr8Ni(N)-steels and cast steel grades. The wire shows very good wetting and feeding characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 350 °C.

BÖHLER AWS ER308LSi         0.8           0.9         0.9           EN ISO 14343-A: G 19 9 LSi         1.0           EN ISO 14343-B: SS308LSi         1.2           AWS: A 5.9: ER308LSi         1.6	24636 86513 86514 86515 86516	1.4316	S300 / 15 Plastic spool	TUV (12936), DB (43.132.38), CE	<ul> <li>Max. service temperature 350 °C</li> <li>High toughness down to -196 °C</li> </ul>
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Solid wire of G 19 9 L Si / ER308LSi type for joining and surfacing applications with matching and similar stabilized and non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 18Cr8Ni(N)-steels and cast steel grades. The wire shows very good wetting and feeding characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 350 °C.

Product Name	Ø	Articel- No.	Wst Nr.	Spool Weight	Approvals	Customer Benefits/ Advantages
EN ISO Classification AWS Classification	[mm]			[kg]		
BÖHLER AWS ER309LSi EN ISO 14343-A: G 23 12 LSi EN ISO 14343-B: SS309LSi AWS: A 5.9: ER309LSi	0.8 0.9 1.0 1.2 1.6	86272 86274 86275 86276 86277	1.4332	BS300 / 15 Wire basket	TÜV (12938), CE	» Service temperature -60 °C to 300 °C

Solid wire of G 23 12 L Si / ER309LSi type for joining unalloyed and low-alloyed steels and cast steel grades or stainless heat resistant Cr-steels and cast steel grades to austenitic steels and cast steel grades. Well suited for depositing intermediate layers when welding cladded materials. Favorably high Cr and Ni contents, low C content. For depositing intermediate layers when welding the side of plates clad with low-carbon non-stabilized or stabilized austenitic CrNiMo(N) austenitic metals. Application temperature max. 300 °C.

BÖHLER AWS ER309LSi	0.8 0.9	24637 86508	1.4332	S300 / 15 Plastic	TÜV (12938), CE	» Service temperature -60 °C to 300 °C
EN ISO 14343-A: G 23 12 LSi EN ISO 14343-B: SS309LSi AWS: A 5.9: ER309LSi	1.0 1.2 1.6	86509 86510 86511		spool		

Solid wire of G 23 12 L Si / ER309LSi type for joining unalloyed and low-alloyed steels and cast steel grades or stainless heat resistant Cr-steels and cast steel grades to austenitic steels and cast steel grades. Well suited for depositing intermediate layers when welding cladded materials. Favorably high Cr and Ni contents, low C content. For depositing intermediate layers when welding the side of plates clad with low-carbon non-stabilized or stabilized austenitic CrNiMo(N) austenitic metals. Application temperature max. 300 °C.

BÖHLER AWS ER316LSi	0.8 0.9	86256 86257	BS300 / 15 Wire basket	TÜV (12937), DB (43.132.39),	<ul> <li>» Max. service temperature 400 °C</li> <li>» High toughness at -196 °C</li> </ul>
EN ISO 14343-A: G 19 12 3 LSi EN ISO 14343-B: SS316LSi AWS: A 5.9: ER316LSi	1.0 1.2 1.6	86258 86259 86260		CE	

Solid wire of G 19 12 3 L Si / ER316LSi type for joining and surfacing application with matching and similar non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 17Cr-12Ni2Mo-steels and cast steel grades. The wire shows very good wetting and feeding characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 400 °C.

BÖHLER AWS ER316LSi	0.8 0.9	24639 86503	S300 / 15 Plastic	TÜV (12937), DB (43.132.39),	<ul> <li>» Max. service temperature 400 °C</li> <li>» High toughness at -196 °C</li> </ul>
EN ISO 14343-A: G 19 12 3 LSi EN ISO 14343-B: SS316LSi AWS: A 5.9: ER316LSi	1.0 1.2 1.6	86504 86505 86506	spool	CE	

Solid wire of G 19 12 3 L Si / ER316LSi type for joining and surfacing application with matching and similar non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 17Cr-12Ni2Mo-steels and cast steel grades. The wire shows very good wetting and feeding characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 400 °C.

# SOLID WIRES, STAINLESS, ECOdrum 100

Product Name	ø	Articel- No.	Wst Nr.	ECOdrum 100	Approvals	Customer Benefits/ Advantages
AWS Classification	[mm]			[kg]		
<b>BÖHLER AWS ER307</b> EN ISO 14343-A: G 18 8 Mn AWS: A 5.9: ER307 (mod.)	1.0 1.2	39431 39432	1.4370	100	TÜV (18920), DB (43.132.59), CE	<ul> <li>Reduced stopps by reducing spoolchanges         <ul> <li>higher productivity</li> <li>Continious wire feeding = less wear of feeding components</li> <li>Closed system = protection gaginst dust</li> </ul> </li> </ul>

Solid wire of G 18 8 Mn / ER307 (mod.) type for joining and surfacing applications with heat resistant Cr-steels and heat resistant austenitic steels. Well-suited for fabricating dissimilar austenitic-ferritic joints at a max. application temperature of 300 °C. For joining unalloyed / low-alloyed or Cr-steels to austenitic steels. Low heat input required in order to avoid brittle martensitic transition zones.

<b>BÖHLER AWS ER308LSi</b> EN ISO 14343-A: G 19 9 LSi EN ISO 14343-B: SS308LSi AWS: A 5.9: ER308LSi	1.0 1.2	39433 39440	1.4316	100	TÜV (12936), DB (43.132.38), CE	<ul> <li>Reduced stopps by reducing spoolchanges         <ul> <li>higher productivity</li> </ul> </li> <li>Continious wire feeding = less wear of feeding components</li> <li>Closed system = protection against dust</li> </ul>
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Solid wire of G 19 9 L Si / ER308LSi type for joining and surfacing applications with matching and similar stabilized and non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 18Cr8Ni(N)-steels and cast steel grades. The wire shows very good wetting and feeding characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 350 °C.

Product Name	Ø	Articel- No.	Wst Nr.	ECOdrum 100	Approvals	Customer Benefits/ Advantages
EN ISO Classification AWS Classification	[mm]			[kg]		
BÖHLER AWS ER309LSi EN ISO 14343-A: G 23 12 LSi EN ISO 14343-B: SS309LSi AWS: A 5.9: ER309LSi	1.0 1.2	39446 39447	1.4332	100	ΤÜΥ (12938), CE	<ul> <li>Reduced stopps by reducing spoolchanges         <ul> <li>higher productivity</li> <li>Continious wire feeding = less wear of             feeding components</li> <li>Closed system = protection against dust</li> </ul> </li> </ul>

Solid wire of G 23 12 L Si / ER309LSi type for joining unalloyed and low-alloyed steels and cast steel grades or stainless heat resistant Cr-steels and cast steel grades to austenitic steels and cast steel grades. Well suited for depositing intermediate layers when welding cladded materials. Favorably high Cr and Ni contents, low C content. For depositing intermediate layers when welding the side of plates clad with low-carbon non-stabilized or stabilized austenitic CrNiMo(N) austenitic metals. Application temperature max. 300 °C.

BÖHLER AWS ER316LSi	1.0 1.2	39452 39453	1.4430	100	TÜV (12937), DB (43.132.39),	<ul> <li>Reduced stopps by reducing spoolchanges</li> <li>higher productivity</li> </ul>
EN ISO 14343-A: G 19 12 3 LSi EN ISO 14343-B: SS316LSi AWS: A 5.9: ER316LSi					CE	<ul> <li>Continious wire feeding = less wear of feeding components</li> <li>Closed system = protection against dust</li> </ul>

Solid wire of G 19 12 3 L Si / ER316LSi type for joining and surfacing application with matching and similar non-stabilized austenitic CrNi(N) and CrNiMo(N)-steels and cast steel grades. Corrosion resistance similar to matching low-carbon and stabilized austenitic 17Cr-12Ni2Mo-steels and cast steel grades. The wire shows very good wetting and feeding characteristics, with excellent weld metal toughness down to -196 °C. Application temperature max. 400 °C.

# SOLID WIRES, NON-ALLOYED, SPOOLS

Product Name	ø	Articel- No.	Spool Weight	Approvals	Customer Benefits/ Advantages
EN ISO Classification AWS Classification	[mm]		[kg]		
BÖHLER SG2	0.8 1.0	81819 81823	BS300 / 15 Wire basket	TÜV (13009), DB (42.236.01),	<ul> <li>Stable arc and simple handling</li> <li>= less add on times</li> </ul>
EN ISO 14343-A: G 42 3 M21 3Si1 AWS: A 5.18: ER70S-6	1.2	81825		CE	<ul> <li>Good wire feeding properties and easy welding in all applications</li> <li>= less time loss</li> </ul>

Copper-coated solid wire or welding rods suited for universal application in boiler and vessel fabrication and in structural steel engineering. Largely spatter-free metal transfer both when using gas mixtures and carbon dioxide. Thanks to its high current carrying capacity this filler metal is also optimally suited for welding thick-walled sheet and plate structures.

BÖHLER SG2	0.8 1.0	71663 71664	S300 / 15 Plastic spool	TÜV (12936), DB (43.132.38),	<ul> <li>Stable arc and simple handling</li> <li>= less add on times</li> </ul>
EN ISO 14343-A: G 42 3 M21 3Si1 AWS: A 5.18: ER70S-6	1.2 1.6	71665 71666		CE	<ul> <li>Good wire feeding properties and easy welding in all applications</li> <li>less time loss</li> </ul>

Copper-coated solid wire or welding rods suited for universal application in boiler and vessel fabrication and in structural steel engineering. Largely spatter-free metal transfer both when using gas mixtures and carbon dioxide. Thanks to its high current carrying capacity this filler metal is also optimally suited for welding thick-walled sheet and plate structures.

BÖHLER SG3	0.8	34334	BS300 / 15	TÜV(18699),	» Clean and constant wire surface, less
	1.0	34339	Wire basket	DB (42.236.02),	contact tip wear = less maintenance
EN ISO 14343-A: G 46 4 M21 4Si1	1.2	34344		CE, ABS, CWB,	» Constant coppering, low spatter level
AWS: A 5.18: ER70S-6	1.6	34345		DNV GL	= less post weld treatment

Copper-coated solid wire suited for universal application in boiler and vessel fabrication and in structural steel engineering. Largely spatter-free metal transfer both when using gas mixtures and carbon dioxide. Thanks to its high current carrying capacity this filler metal is also optimally suited for welding thick-walled sheet and plate structures.

<b>BÖHLER SG3</b> EN ISO 14343-A: G 46 4 M21 4Si1	0.8 1.0 1.2	84789 84792 84793	S300 / 15 Plastic spool	TÜV(18699), DB (42.236.02), CE, ABS, CWB,	<ul> <li>» Clean and constant wire surface, less contact tip wear = less maintenance</li> <li>» Constant coppering, low spatter level</li> </ul>
AWS: A 5.18: ER70S-6				DNV GL	= less post weld treatment

Copper-coated solid wire suited for universal application in boiler and vessel fabrication and in structural steel engineering. Largely spatter-free metal transfer both when using gas mixtures and carbon dioxide. Thanks to its high current carrying capacity this filler metal is also optimally suited for welding thick-walled sheet and plate structures.

## SOLID WIRES, NON-ALLOYED, DRUM SOLUTIONS

Product Name	Ø	Articel- No.	Drum 250	Approvals	Customer Benefits/ Advantages
EN ISO Classification AWS Classification	[mm]		[kg]		
BÖHLER SG2	0.8 1.0	86523 84691	BASEdrum 250	TÜV (13009), DB (42.236.01),	<ul> <li>Reduced stopps by reducing spoolchanges</li> <li>higher productivity</li> </ul>
EN ISO 14343-A: G 42 3 M21 3Si1 AWS: A 5.18: ER70S-6	1.2 1.6	84692 30730		CE	<ul> <li>Continious wire feeding = less wear of feeding components</li> <li>Closed system = protection against dust</li> </ul>

Copper-coated solid wire or welding rods suited for universal application in boiler and vessel fabrication and in structural steel engineering. Largely spatter-free metal transfer both when using gas mixtures and carbon dioxide. Thanks to its high current carrying capacity this filler metal is also optimally suited for welding thick-walled sheet and plate structures.

<b>BÖHLER SG3</b> EN ISO 14343-A: G 46 4 M21 4Si1 AWS: A 5.18: ER70S-6	0.8 1.0 1.2	86872 34352 34353	BASEdrum 250	TÜV(18699), DB (42.236.02), CE, ABS, CWB, DNV GL	<ul> <li>Reduced stopps by reducing spoolchanges         <ul> <li>higher productivity</li> </ul> </li> <li>Continious wire feeding = less wear of         feeding components</li> <li>Closed system = protection against dust</li> </ul>
<b>BÖHLER SG3</b> EN ISO 14343-A: G 46 4 M21 4Si1 AWS: A 5.18: ER70S-6	1.0 1.2	40026 40029	ECOdrum 250	TÜV(18699), DB (42.236.02), CE, ABS, CWB, DNV GL	<ul> <li>Reduced stopps by reducing spoolchanges         <ul> <li>higher productivity</li> </ul> </li> <li>Continious wire feeding = less wear of         feeding components</li> <li>Closed system = protection against dust</li> </ul>

Copper-coated solid wire suited for universal application in boiler and vessel fabrication and in structural steel engineering. Largely spatter-free metal transfer both when using gas mixtures and carbon dioxide. Thanks to its high current carrying capacity this filler metal is also optimally suited for welding thick-walled sheet and plate structures.

## CORED WIRE, NON-ALLOYED, SPOOLS

Product Name EN ISO Classification AWS Classification	Ø [mm]	Articel- No.	Spool Weight [kg]	Approvals	Customer Benefits/ Advantages
BÖHLER AWS E71T1-M/C EN ISO 14343-A: T46 2 P C1 1 H5, T46 2 P M21 1 H10 AWS: A 5.36: E71T1-C1A2-CS1-H8, E71T1-M211A2-CS1-H8	1.2 1.2 1.2	39319 39336 39322	BS300 / 16 S200 / 5 S300 / 15	TÜV, DB, CE, DNV GL, ABS	<ul> <li>» Simple handling and high productivity in vertical up and over-head positions</li> <li>» Easy slag removal</li> </ul>

Rutile cored wire characterized by highest productivity and provides significant savings in time and economical aspects when used for positional welding.

BÖHLER AWS E70C-6M	1.2 1.2	39345 39348	BS300 / 16 S300 / 15	TÜV, DB, CE	» High productivity in PA, PB welding positions
EN ISO 14343-A: T42 2 M M21 3 H5 AWS: A 5.18: E70T15-M21A2-CS1-H4	1.2	39354	S200 / 5		<ul> <li>» Low spatter level and flat weld bead appearance reduce post weld</li> </ul>
					treatment

Metal cored wire characterized by minimum oxide residue, minimal spatter formation and low hydrogen content. This filler material is ideal for horizontal and flat fillet welds.

