



THE ARAB COMPANY FOR SPECIAL STEEL (ARCOSTEEL)



Contact us

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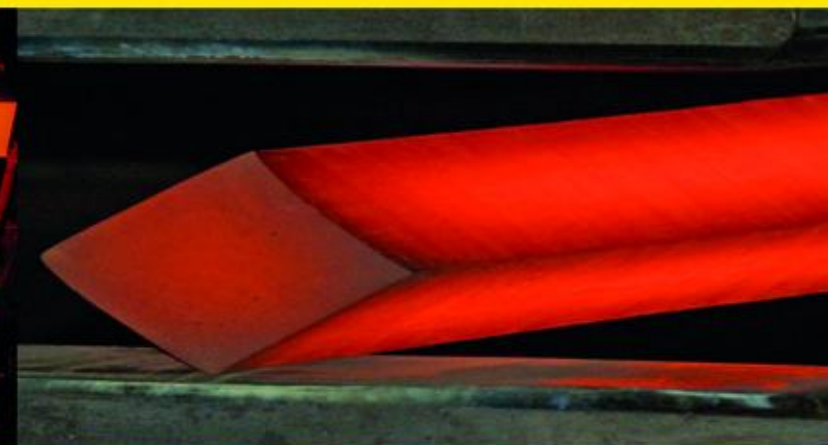
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1-About us

ARCOSTEEL is established since 1992 as an Egyptian stock company under Law 230/1989. The company has a mixed Egyptian and Arab capital of 100 millions dollars. The total Investment is about 278 millions dollars.

The Company is Located at the 5th industrial zone, Sadat City - Egypt equipped with high technologies for steel making, rolling mill, finishing, heat treatment and utilities equipment .

ARCOSTEEL Current annual designed production capacity is 140,000 tons of high quality steel to cover the local market demands and to export to both Arabic and European countries.

ARCOSTEEL produces stainless steel, free cutting steel, spring steel, case hardening steel, and quenching & tempering steel according to international standards (DIN,ASTM,JIS BS, Gost, etc) according the customer's technical requirement. Furthermore, ARCOSTEEL provides the customers with the technical assistance and after sales services.

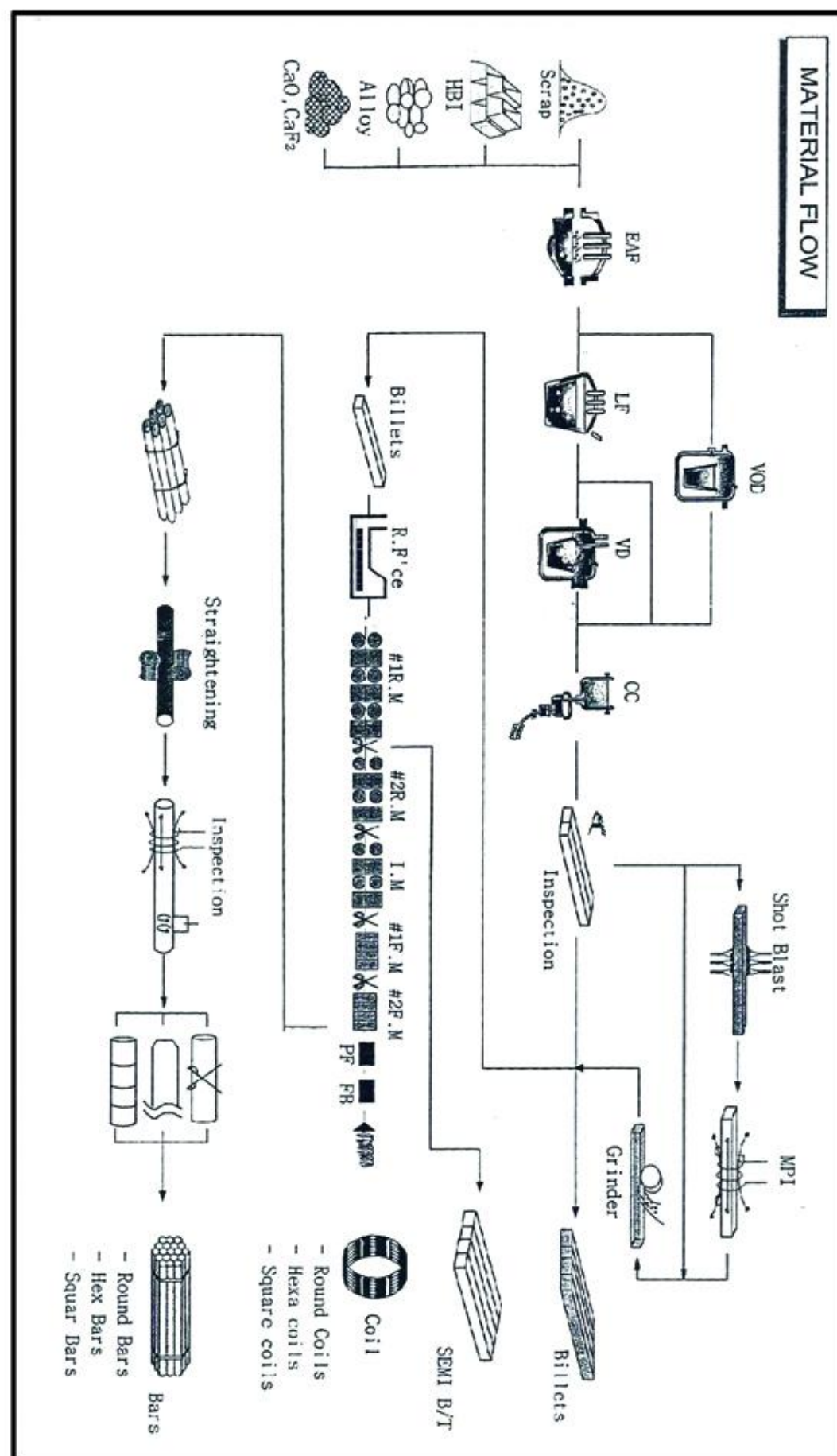
ARCOSTEEL mission:

Production and marketing of high quality special steel in the form of Cast billets, Cast ingots, rolled billets, rolled round bars, rolled square bars, rolled hexagonal bars and wire rod coils

ARCOSTEEL vision:

- Expanding the annual production capacity to reach 200,000 tons.
- Encouraging the establishment of new industries based on special steel.
- Upgrading the capabilities of ARCOSTEEL to be distinguished special steel producer in Arab, African and Middle East through research and development.

2- Process and material flow



3-Plants & Facilities

3-1 Electric arc furnace (EAF) Danielli make

- Tapping capacity : nominal 45 tons
- With 43 MVA transformer
- Electrode regulation system



3-2 Ladle Refining Furnace (LRF) Danielli made

- Capacity of metal : 45 ton
- Operation : Electromotive
- With 10 MVA transformer
- Electrode regulation system



3-3 Vacuum Oxygen Decarburization System (VOD / VD) Danielli made

To improving steel quality by refining under vacuum conditions. The new technology is basically related to two main processes:

- Vacuum degassing (VD)
- Vacuum oxygen decarburisation (VOD)



3-4 Continuous Casting Machine (CCM) Danielli make

- Machine type : Curved mould type
- Ladle capacity : 40 ton
- Number of strands : 2
- Design range of machine : 160 mm sq . , 3.5 ~8m long
- Control system : 180 mm sq . , 3.5~6.3 m long
- Ladle weighing, Tundish weighing and level control Computer based level 2 PC/PLC and Mould level control



3-5 Billet Conditioning Area

- Billet Shot Blasting Machine.
- Billet Straightening Machine.
- On Line Magnetic Practical Inspection (MPI).
- Automatic Grinding Machine.
- Manual Grinding Line.



3-6 Rolling Mill Line

- Reheating Furnace (Walking Hearth Type) : 45 tons/hr .Stien Hornos make
- Rolling Mill for Bar with 22 stands.
- Rolling Mill For Wire Rod Coil 32 stands.



3-7 Finishing Line

- Bar Finishing Line: Straightening, chamfering and NDT on line, cut to length, weighing and bundling .



3-8 Heat Treatment Facilities

- Roller Hearth Furnace: Solution Treatment (Annealing) of Austenitic Stainless Steel.
- Bogie Furnace: Annealing, Normalizing and Tempering of Carbon, Alloy and spring steel.
- Induction Heat Treatment Line: Quenching & Tempering Annealing and Normalizing of Special steel Grades.

The line has been designed with special features to perform the following heat treatments

- Quenching and Tempering of carbon and alloyed steels.
- Annealing of Austenitic stainless steels.
- Normalizing.
- Stress relieving.

Induction technology assures the maximum homogeneity of mechanical and structural properties both in the bar section and along the bar length Dimensional range of bars that can be processed by the line is from 20 to 70 mm diameter with a length from 3 to 7 mm.



3-9 Peeling line

Peeling line is an a advanced equipment for machining of black rolled bars to smooth surface, straightened and size adjusted for diameters that can not be achieved by rolling with tolerances up to ISO H9



Characteristics of peeled and straightened product

- Size of bars \varnothing 15-75 mm
- Size tolerance after peeling EN100278 ISO h11 to h9 with ovality max.50%
- Surface roughness after peeling Ra 0.9 . 1.4 μm approx
- Surface roughness (After straightening) Ra 0.3 μm approx
- Bar straightness after peeling ≤ 1 mm/m
- Bar straightness after straightening ≤ 0.5 mm/m

3-10 Utilities

- Water Treatment Station .
- Cryogenic Unit (Liquid and Gaseous Oxygen - Liquid Nitrogen - Liquid Argon).
- Electric Power Receiving station.
- Boiler (steam generating station).



3-11 Laboratories

- Optical Emission Spectrometer.
- X-Ray Fluorescence.
- C/S , O / N and DH Determinators.
- Hardness Testers : (Rockwell, Brinell & Vickers, Shore).
- Universal Testing Machine (UTM).
- Impact Testing Machine.
- Wet chemistry lab.
- Metallographic lab.

To meet the requirements of ISO / IEC 17025 standard, ARCOSTEEL laboratories accredited by EGAC (Egyptian Accreditation Council) which have a mutual recognition with ILAC. Also to increase our competency ARCOSTEEL laboratories participates proficiency test program sponsored by many providers such as ASTM, IFEP Institute Germany and national institute for standards (NIS)



4- Quality System

4-1 ARCOSTEEL Quality system was established to guarantee product quality and fulfillment of customer's requirements.

The most important thing on the Special Steel is the final use, so our inspection system was built up to meet the purpose and the final application.

4-2 ARCOSTEEL inspection system is classified to:

- 1-Incoming raw materials inspection.
- 2-Process and in process inspection.
- 3-Final inspection.

4-3 ARCOSTEEL on line inspection equipments.

- 1-Circograph (Dr – Forester), Surface quality.
- 2-Multi channel ultrasonic (Kraut Kramer), internal quality.
- 3-Magna test, anti- mixing device.
- 4-MPI for billets, surface quality.
- 5-MPI for square and hexagonal bars, surface quality.
- 6-Laser measuring device (Zumbach), size controlling.
- 7-Portable optical emission (Spectro).



5-Products and technical specification

5-1 Steel grades list

Structural Steel bars			
St52/3	St37/2	A36	St 60-2
S355J0	St37/3	St42/2	St 70-2
S355JR	S235J2	S275JR	LF2
S355J2	S235JR	S275J0	A 105
S355J2G3	S235J0	S275J2	Gr 60A 615
Free Cutting Steel bars			
11SMn30	9S20	12L14	36SMn14
230M07	11SMnPb30	11SMnPb37	36SMnPb14
11SMn37	230M07Pb	46S11	AISI 1141
Case Hardening Steel Bars			
A) Carbon			
C10	C10R	C15E	080A15
C10E	C15	C15R	080A17
B) Alloy			
34Cr4	27MnCr5	42CrMo4	40NiCrMo2-2
34CrS4	27MnCrS5	AISI 4140	39NiCrMo3
37Cr4	25CrMo4	42CrMoS4	34CrNiMo6
37CrS4	25CrMoS4	50CrMo4	35NiCrMo7
41Cr4	AISI 4130	709M40	817M40
41CrS4	34CrMo4	42CrMoB4	40NiCrMoS7
605M36	34CrMoS4	31CrMoV9	30CrNiMo8
Spring Steel Bars			
38Si7	SAE 9260	55Cr3	56SiCr7
51Si7	60SiMn5	51CrMoV4	60SiCr7
Steel for Cold Drawing wire			
A) Low Carbon			
AISI 1006	AISI 1010	St 37	SG2
AISI 1008	AISI 1011	AISI 1015	S2Mo
B) High carbon			
AISI 1060	AISI 1070	AISI 1075	SWRH 82B
AISI 1065	SWRH 72B	AISI 1080	AISI 1085

Carbon Manganese Steel bars			
22Mn6	150M19	28Mn6	150M36
SMn443H	36Mn6	42Mn6	
Microalloyed Steel bars			
17MnV6	20MnV6	20MnVS6	LF6
Boron Steel bars			
32CrB4	34CrB4	27MnCrB5-2	30MnB4
Stainless Steel bars			
A) Austenitic			
304	304L	316	316L
B) Martensitic			
416	420		
Quenching and Tempering Steel Bars			
A) Carbon			
C22	AISI 1030	C40R	AISI 1050
CK22	C30R	080M40	CF53
C22E	080M30	080A42	C53
AISI 1020	C35	C45	S53C
C22R	CK35	CK45	C55
070M20	C35E	C45E	CK55
C25	AISI 1035	AISI 1045	C55E
CK25	C35R	C43	070M55
C25E	C40	C45R	C55R
C25R	CK40	G1045	C60
C30	C40E	C50	CK60
CK30	AISI 1040	CK50	C60E
C30E	S40C	C50E	C60R
B) Alloy			
15Cr3	18CD4	15NiCr13	20CrNiMoS4
16MnCr5	18CrMo4	20NiCrMo2-2	18NiCrMo5
16MnCrS5	18CrMoS4	SAE 8620	17NiCrMo6-4
20MnCr5	15CrNi6	20NiCrMoS2-2	17CrNiMo6
20MnCrS5	16NiCr6	20NiCrMoVS2-2	18CrNiMo7/6

5-2 Technical specification

5-2-1 Stainless steel

Chemical Composition of Stainless steel grades (ladle analysis) according to EN 10088 and similar grades corresponding to ASTM & JIS for examples as follows

Steel Grade		Chemical Composition (%by mass)									Corresponding standards	
Symbol	Mat. No.	C	Si Max	Mn Max	P Max	S Max	Cr	Mo	Ni	others	ASTM	JIS
X5CrNi18-10	1.4301	≤ 0.07	1.0	2.0	0.045	0.030	17.0 19.5	-	8.0 10.5	N ≤ 0.11	304	SUS 304
X2CrNi18-9	1.4307	≤ 0.03	1.0	2.0	0.045	0.030	17.5 19.5	-	8.0 10.0	N ≤ 0.11	304L	SUS304L
X5CrNiMo17-12-2	1.4401	≤ 0.07	1.0	2.0	0.045	0.030	16.5 18.5	2.0 2.5	10.0 13.0	N ≤ 0.11	316	SUS316
X2CrNiMo17-12-2	1.4404	≤ 0.03	1.0	2.0	0.045	0.030	16.5 18.5	2.0 2.5	10.0 13.0	N ≤ 0.11	316L	SUS316L
X20Cr13	1.4021	0.16 0.25	1.0	1.5	0.040	0.030	12.0 14.0	-	-	-	420	SUS420J1
X12CrS13	1.4005	0.08 0.15	1.0	1.5	0.040	0.15 0.35	12.0 14.0	≤ 0.6	-	-	416	SUS416

□ Other steel grades can be produced according to EN 10088 and by mutual agreement.

Mechanical properties of some stainless steel grades in heat treated condition and size range as follows:

Steel Grade		Heat Treatment Condition	Rm N/mm2	Re N/mm2	A% Min	KV(J) Min	HB Max.
Symbols	Mat. No.						
X5CrNi18 -10 (1)	1.4301	A	500 - 700	190	45	100	215
X2CrNi18-9(1)	1.4307	A	460 - 680	175	45	100	215
X5CrNiMo17-12-2(1)	1.4401	A	500 - 700	200	40	100	215
X2CrNiMo17-12-2 (1)	1.4404	A	500 - 700	200	40	100	215
X20Cr13 (2)	1.4021	A	≤ 760	-	-	-	230
		QT	700 - 850	500	13	25	-
X12CrS13 (2)	1.4005	A	≤ 730	-	-	-	220
		Q T	650 - 850	450	12	-	-

Values are specified for sizes < 160 mm.

(1) Austenitic grades, annealed (solution treated).

(2) Martensitic grades, annealed / QT.

A : Annealed or solution annealed.

QT : Quenched and Tempered

Rm : Tensile Strength

Re : Upper yield stress or, if no yield phenomenon occurs, 0.2 % proof stress, Rp0.2

A% : Percentage elongation after fracture

KV : Impact strength (Joule) of longitudinal Charpy V- notch test pieces

HB : Brinell hardness

Range of Applications

- Food stuff industries.
- Chemical industries.
- Structure parts of high strength.
- Turbin Parts.
- Military industries.
- Medical purposes.



5-2-2 Steels for Quenching and Tempering

Chemical Composition of Quenching and Tempering Steel (ladle analysis) according to EN 10083 and similar grades corresponding to ASTM and JIS for examples as follows:

Steel grade		Chemical Composition (%by mass)								Corresponding standards	
Symbol	Mat. No.	C	Si Max	Mn	P Max	S Max	Cr	Mo	Ni	ASTM	JIS
41Cr4	1.7035	0.38 0.45	0.40	0.60 0.90	0.035	0.035	0.90 1.20	-	-	5140	SCr4
25CrMo4	1.7218	0.22 0.29	0.40	0.60 0.90	0.035	0.035	0.90 1.20	0.15 0.30	-	4130	SCM2
42CrMo4	1.7225	0.38 0.45	0.40	0.60 0.90	0.035	0.035	0.90 1.20	0.15 0.30	-	4140	SCM4
34CrNiMo6	1.6582	0.30 0.38	0.40	0.50 0.80	0.035	0.035	1.30 1.70	0.15 0.30	1.30 1.70	-	SNCM9
30CrNiMo8	1.6580	0.26 0.34	0.40	0.50 0.80	0.035	0.035	1.80 2.20	0.30 0.50	1.80 2.20	-	SNCM1

□ Steel with born (B) can be produced

□ Alloy steel can be produced with (S = 0.020 - 0.040).

□ Other alloys steels can be produced according to EN10083 and by mutual agreement.

Mechanical properties of steel for Quenching and tempering condition to EN 10083 for examples as follows:

Steel Grade		Heat Treatment Condition	HB Max	Rm N/mm2	Re N/mm2	A% Min	Z% Min	KV(J) Min
Symbol	Mat. No.							
41Cr4	1.7035	QT	-	900 - 1100	660	12	35	35
		A	241	-	-	-	-	-
25CrMo4	1.7218	QT	-	800 - 950	600	14	55	50
		A	212	-	-	-	-	-
42CrMo4	1.7225	QT	-	1000-1200	750	11	45	35
		A	241	-	-	-	-	-
34CrNiMo6	1.6582	QT	-	1100 - 1300	900	10	45	45
		A	248	-	-	-	-	-
30CrNiMo8	1.6580	QT	-	1250 - 1450	1050	9	40	30
		A	248	-	-	-	-	-

Mechanical properties are specified for bar diameter = 17-40mm, other size acc.to EN 10083

A : Annealed or solution annealed.

QT : Quenched and Tempered

Rm : Tensile Strength

Re : Upper yield stress or, if no yield phenomenon occurs, 0.2 % proof stress, Rp0.2

A% : Percentage elongation after fracture

Z% : Reduction in cross section on fracture

KV : Impact strength (Joule) of longitudinal Charpy V- notch test pieces

HB : Brinell hardness

Range of Applications

- Machine components (bolts, nuts, etc).
- Mechanical .engineering parts (shafts, axles, pins, keys,etc).
- Automobile and motor construction.
- Axles, control components.
- Gears, connecting rods.
- Crank shaft, gear components.



5-2-3 Case Hardening Steels

Chemical Composition of Case Hardening Steel (ladle analysis) according to EN 10084 and similar grades corresponding to ASTM & JIS for examples as follows:

Steel grade		Chemical Composition (%by mass)								Corresponding standards	
Symbol	Mat. No.	C	Si Max	Mn	P Max	S Max	Cr	Mo	Ni	ASTM	JIS
16MnCr5	1.7131	0.14 0.19	0.40	1.00 1.30	0.035	0.035	0.80 1.10	-	-	-	-
20MnCr5	1.7147	0.17 0.22	0.40	1.10 1.40	0.035	0.035	1.00 1.30	-	-	-	2MnCr21
18CrNiMo7-6	1.6587	0.15 0.21	0.40	0.50 0.90	0.035	0.035	1.50 1.80	0.25 0.35	1.40 1.70	4317	-

- Steel with born (B) can be produced
- Other steels grades can be produced according to EN10084 and by mutual agreement.

Max. Brinell hardness for products supplied in several conditions according to EN 10084:

Steel grade		HB Max			
Symbol	Mat. No.	S Max(1)	A Max(2)	TH (3)	FP (4)
16MnCr5	1.7131	-	207	156 - 207	140 - 187
20MnCr5	1.7147	255	217	170 - 217	152 - 201
18CrNiMo7-6	1.6587	255	229	179 - 229	159 - 207

- Treated to improve Shearability.
- Annealed to max. Hardness requirement.
- Treated to hardness range.
- Treated to ferrite- pearlite structure and hardness range.

Range of Applications

- Structure and small machine components.
- Cardan joints gear, building and wheels
- Parts of control.
- Automobile and motor construction



5-2-4 Free Cutting Steels

Chemical Composition of Free Cutting Steel (ladle analysis) according to EN 10087 and similar grades corresponding to ASTM & JIS For examples as follows:

Steel grade		Chemical Composition (%by mass)							Corresponding standards	
Symbol	Mat. No.	C	Si Max	Mn	P Max	S Max	Pb	ASTM	JIS	
9SMn28 (11SMn30)	1.0715	≤ 0.14	0.05	0.90 1.30	0.11	0.27 0.33	-	1214	SUM22	
9SMnPb28 (11SMnPb30)	1.0718	≤ 0.14	0.05	0.90 1.30	0.11	0.27 0.33	0.20 0.35	12L14	SUM22L	
9SMn36 (11SMn37)	1.0736	≤ 0.14	0.05	1.00 1.50	0.11	0.34 0.40	-	1215	SUM25	
9SMnPb36 (11SMnPb37)	1.0737	≤ 0.14	0.05	1.00 1.50	0.11	0.34 0.40	0.20 0.35	-	-	
36SMn14	1.0764	0.32 0.39	0.40	1.30 1.70	0.06	0.10 0.18	-	-	-	
36SMnPb14	1.0765	0.32 0.39	0.40	1.30 1.70	0.06	0.10 0.18	0.15 0.35	-	-	

- Other steels grades can be produced according to EN10087 and by mutual agreement.

Mechanical properties of free cutting steel grades according to EN10087:

Steel Grade		Delivery Condition	Rm N/mm2	Re N/mm2	A%	HB
Symbol	Mat. No.					
9SMn28 (11SMn30)	1.0715	U	380 570	-	-	112 169
9SMnPb28 (11SMnPb30)	1.0718					
9SMn36 (11SMn37)	1.0736	U	380 570	-	-	112 169
9SMnPb36 (11SMnPb37)	1.0737					
36SMn14	1.0764	U	560 750	-	-	166 222
36SMnPb14	1.0765					

Mechanical properties are specified for bar diameter = 17-40mm, other sizes acc.to EN 10087

U : Untreated.

Rm : Tensile Strength

Re : Upper yield stress or, if no yield phenomenon occurs, 0.2 % proof stress, Rp0.2

A% : Percentage elongation after fracture

HB : Brinell hardness

Range of Applications

- Parts finished by machining.



5-2-5 Spring Steel

Chemical Composition of Spring Steel (ladle analysis) according to EN 10089-DIN 17221 and similar grades corresponding to ASTM & JIS for examples as follows:

Steel grade		Chemical Composition (%by mass)							Corresponding standards	
Symbol	Mat. No.	C	Si Max	Mn	P Max	S Max	Cr	V	ASTM	JIS
55Si7	1.5026	0.52 0.60	1.60 2.00	0.60 0.90	0.030	0.030	-	-	9255	-
60SiCr7	1.7108	0.57 0.65	1.60 2.00	0.70 1.00	0.030	0.030	0.20 0.40	-	9262	-
55Cr3	1.7176	0.52 0.59	- 0.40	0.70 1.00	0.030	0.030	0.70 1.00	-	5155	SUP 9
51CrV4	1.8159	0.47 0.55	- 0.40	0.70 1.10	0.030	0.030	0.90 1.20	0.10 0.25	6150	SUP 10

- Other steel grades can be produced according to Standard and by mutual agreement.

Mechanical properties of spring steel grades according to EN10088:

Steel Grade		Heat Treatment Condition	HB Max
Symbol	Mat. No.		
55Si7	1.5026	A	245
60SiCr7	1.7108	A	248
55Cr3	1.7176	A	248
50CrV4	1.8159	A	248

Range of Applications

All type of wires and springs.



5-3 Size and shape:

5-3-1 Hot rolled round bar:

Size: from 13 mm to 115 mm according to EN10060

5-3-2 Wire rod coil:

Size: 6, 7, 8, 9, 10, 11, 13, 16 and 18 mm according to DIN 59110

Coil dimension: ID = 850 mm, OD = 1250 mm, L max. = 1500 mm

Coil weight = 1500 kg

5-3-3 Hot rolled semi billet: (RCS) 130 X 130, 115 X 115, 100 X 100, 90 X 90, 80 X 80 mm

5-3-4 Cast billet: The only available size is 160 x 160 mm, length up to 9000 mm

5-4 Size tolerance:

5-4-1 Hot rolled round bar

Diameter (mm)	Size Tolerance(mm)	Ovality
$\varnothing < 16$	+/- 0.40	Max. 75% of total size tolerance
$16 < \varnothing < 25$	+/- 0.50	
$26 < \varnothing < 35$	+/- 0.60	
$36 < \varnothing < 50$	+/- 0.80	
$51 < \varnothing < 80$	+/- 1.00	
$81 < \varnothing < 100$	+/- 1.30	
$101 < \varnothing < 120$	+/- 1.50	

5-4-2 Bright surface (peeled) h11-h10-h9 EN 10278

Diameter (mm)	Tolerance(mm)			Ovality
	ISO h11	ISO h10	ISO h9	
$16 \leq \varnothing < 18$	+0.000	+0.000	+0.000	Max. 50% of total size tolerance
	-0.110	-0.070	-0.043	
$18 < \varnothing \leq 30$	+0.000	+0.000	+0.000	
	-0.130	-0.084	-0.052	
$30 < \varnothing \leq 50$	+0.000	+0.000	+0.000	
	-0.160	-0.100	-0.062	
$50 < \varnothing \leq 80$	+0.000	+0.000	+0.000	
	-0.190	-0.120	-0.074	

5-4-3 Hot rolled semi billet (RCS)).

Side length (mm)	Size Tolerance (mm)
80 & 90	+/- 1.0
100	+/- 1.3
115	+/- 1.3
130	+/- 1.8

5-5 Length tolerance

Type Length	Length (mm)	Permissible Variation (mm)
Fixed	$\geq 3000 \leq 6000$	+/- 100
Range	3000 - 6000	+/- 500

* Max. 10 % short length min 2/3 length, max. 5 % over length max. + 500 mm.

6- Identification and packing method

ARCOSTEEL identifies its products by plastic labels, sticker and color code by mutual agreement



THE ARAB COMPANY FOR SPECIAL STEEL



أركوستيل

الشركة العربية للصليب المخصوص

MADE IN EGYPT

صنع في مصر

POC No. :

POS No. :

P. Order :

Customer :

Steel Grade:

Heat No. :

Size : mm

Length : m

No. of Pcs. :

Weight : kg

HT./FN. :

Bundle No. :

SGS

UKAS

SGS

IAC-MRA

EGAC

Accredited

Testing

CAB # 20628

Email: arcos@intouch.com

Tel: (+20)(482603057)

Fax: (+20)(482603057)

ARCOSTEEL has different packing methods according to surface conditions as follows:

6-1 Black surface

- Bare packing with minimum four steel wire along the bundle length.
- Hessian packing is available by agreement.

6-2 Bright surface

- Peeled packing
- Wooden box or wooden slate packing.
- Special packing can be used by mutual agreement

7- Health and safety

ARCOSTEEL has an uncompromising approach to the health and safety of its employees and visitors. All employees receive comprehensive and regular training to ensure that they work on site in the safest possible manner every day, and that environmental awareness is foremost in their minds.

ARCOSTEEL has invested extensively in environmental protection at its plant, ranging from filters to purify emissions by two fume extraction systems to the continual maintenance of large green spaces at all sites

ARCOSTEEL has been accredited according to EMS ISO 14001-2004 and all ARCOSTEEL activities meet internationally recognized environmental and occupational health and safety standards with very tight controls over gaseous dust and other airborne emissions as well as liquid effluents, noise levels and even control the natural resources consumption. Solid waste is recycled at all plants and each has its own sophisticated, water treatment facilities for recycling all water used on site.



8-Approvals and certification

ARCOSTEEL has been accredited according to quality Management System ISO 9001-2008 and environmental management system ISO 14001-2004

ARCOSTEEL laboratories have been accredited according to ISO 17025 by EGAC (Egyptian Accreditation Council) which have a mutual recognition with ILAC.

ARCOSTEEL quality assurance system has been established to impact its operations across the board, from order placements to shipment of products.

ARCOSTEEL finished goods are available for dispatch only after inspection and testing by latest testing and analytical instruments manned by qualified and experienced personnel, as part of its commitment to consistently deliver high quality products. All testing, inspection and monitoring procedures are carried out based on international standards and test certificates are provided to our customers.

Our values focus on creativity, innovation and quality; in addition to honesty and integrity across our business.

We also concentrate on continuous improvement in all areas with a key focus on health, safety, the environment and employee development and recognition.



Testing CAB #20628