

**BIRLER**  
Precision Spring Steel

[birler.com.tr](http://birler.com.tr)

## ABOUT US

Established in 1976, our company is a trusted global provider of **high-carbon and stainless steel**. With our headquarters in **Istanbul and London**, we efficiently serve customers **worldwide**.

With a total of **11,400 m<sup>2</sup>** facilities, we offer a heat treatment facility for high-carbon steel strips and a service center equipped with six slitting lines, edge rounding machines, and a length cutting machine. Our steel range covers thicknesses from **0.10 mm to 8.00 mm**.

We ensure uncompromising quality through meticulous inspections and comprehensive tests in **our two in-house laboratories**.

Our dedicated team consists of 83 professionals and 16 experienced engineers in sales, production and quality departments. We proudly deliver exceptional outcomes to **Germany, United Kingdom, Israel, The Netherlands, North Macedonia, Belgium, Slovakia, Greece, Czechia, Spain, Portugal, The Turkic Republics, Poland** and various **Middle Eastern countries**.







## PRODUCTS

**COLD ROLLED STEEL STRIP**

**LOW AND MILD GRADES**

**HIGH CARBON, ANNEALED**

**HIGH CARBON, HARDENED & TEMPERED**

**COLD ROLLED STAINLESS STEEL STRIP**

# LABORATORIES

We examine the samples which are delivered from our customers and produce the required raw materials with the appropriate specifications.

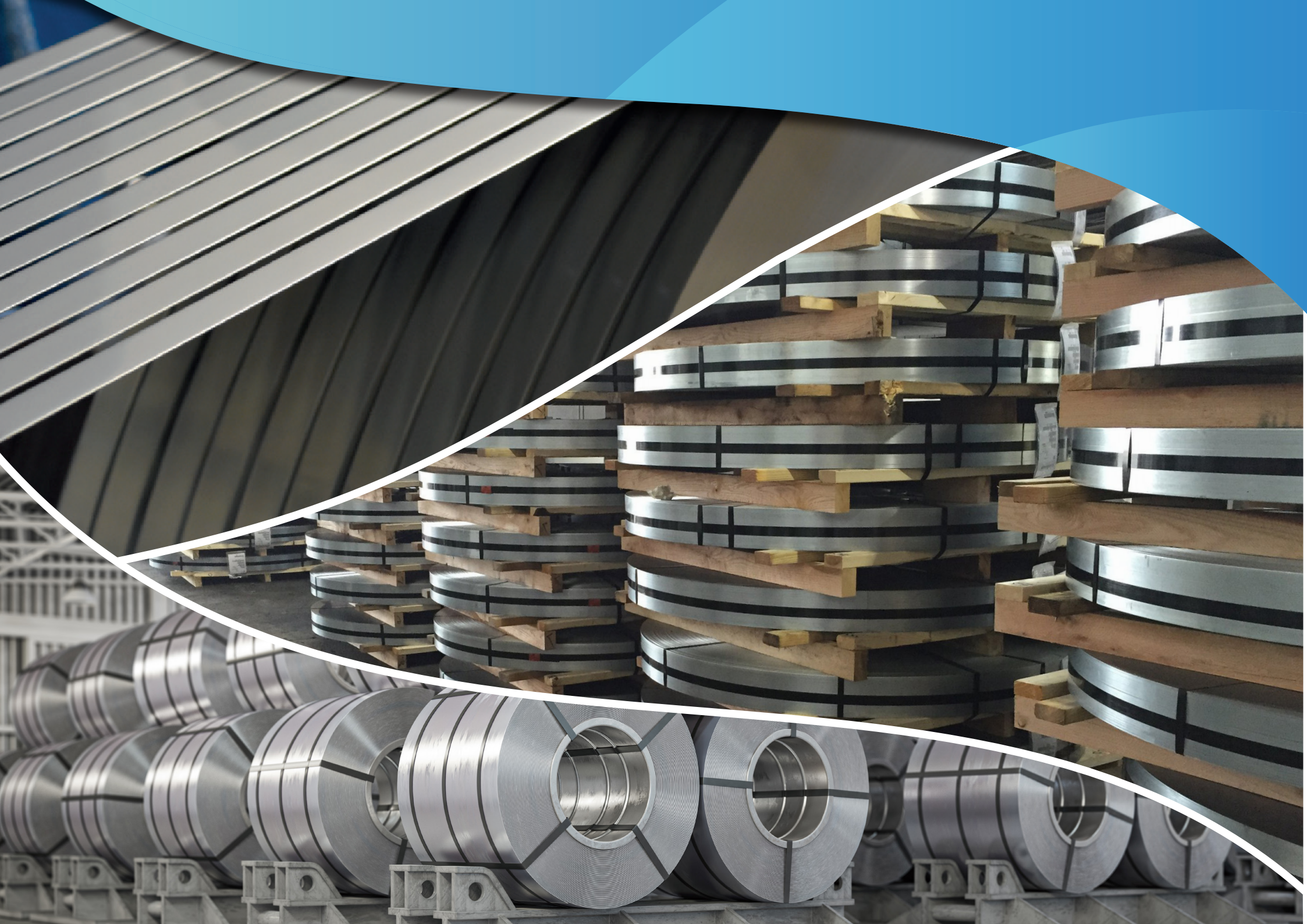


## SUPPLY MATERIAL CHEMICAL COMPOSITION

STANDARD COMPARISON CHART						CHEMICAL COMPOSITION %								
EN 10132	UNI	DIN	AFNOR	BS	SAE/AISI	C	Mn	Si	P max	S max	Cr max	Ni max	Mo max	V
C10E	C10	CK10	XC 10	C10S	C10	0,07-0,13	0,30-0,60	Max 0,40	0,035	0,035	0,400	—	—	—
C15E	C15	CK15	XC15	C15S	C15	0,12-0,18	0,30-0,60	Max 0,40	0,035	0,035	0,400	—	—	—
16MnCr5	16MnCr5	16MnCr5	16MnCr5	16MnCr5	16MnCr5	0,14-0,19	1,00-1,30	Max 0,40	0,035	0,035	0,80-1,10	—	—	—
C45E	C45	CK 45	XC 45	CS40	1045	0,42-0,50	0,50-0,80	Max 0,40	0,025	0,025	0,400	0,40	0,10	—
C55S	C55	CK 55	XC 55	CS50	1055	0,52-0,60	0,60-0,90	0,15-0,35	0,025	0,025	0,400	0,40	0,10	—
C60S	C60	CK 60	XC 60	CS60	1060	0,57-0,65	0,60-0,90	0,15-0,35	0,025	0,025	0,400	0,40	0,10	—
C67S	c67	CK 67	XC 67	—	1070	0,65-0,73	0,60-0,90	0,15-0,35	0,025	0,025	0,400	0,40	0,10	—
C75S	C75	CK 75	XC 75	—	1075	0,70-0,80	0,60-0,90	0,15-0,35	0,025	0,025	0,400	0,40	0,10	—
C85S	C85	CK 85	XC 80	CS 80	1086	0,80-0,90	0,40-0,70	0,15-0,35	0,025	0,025	0,400	0,40	0,10	—
C100S	C100	CK 101	XC 100	CS 95	1095	0,95-1,05	0,30-0,60	0,15-0,35	0,025	0,025	0,400	0,40	0,10	—
51CrV4	50CrV4	50CrV4	50CrV4	50CrV4	50CrV4	0,47-0,55	0,70-1,10	Max 0,40	0,025	0,250	0,90-1,20	0,40	0,10	0,10-0,25

## MATERIAL REFERENCE MECHANICAL VALUES

MATERIAL GRADE						MECHANICAL VALUES		
EN 10132	UNI	DIN	AFNOR	BS	SAE/AISI	Rm max N/mm2	HV max	A% (Lo80 min)
C10E	C10	CK10	XC 10	C10S	C10	430	135	26
C15E	C15	CK15	XC15	C15S	C15	450	140	25
16MnCr5	16MnCr5	16MnCr5	16MnCr5	16MnCr5	16MnCr5	550	170	21
C45E	C45	CK 45	XC 45	CS40	1045	570	165	18
C55S	C55	CK 55	XC 55	CS50	1055	600	185	17
C60S	C60	CK 60	XC 60	CS60	1060	620	200	17
C67S	C67	CK 67	XC 68	CS70	1070	640	200	16
C75S	C75	CK 75	XC 75	—	1075	640	200	15
C85S	C85	CK 85	XC 80	CS 80	1086	670	210	15
C100S	C100	CK 101	XC 100	CS 95	1095	690	220	13
51CrV4	50CrV4	50CrV4	50CrV4	50CrV4	50CrV4	700	220	13







BİRLER ÇELİK

A-3

BAKIMCILA  
ÇALIŞAN  
BAŞLI YERİNE  
MÜHÜR KILAVUZU  
VE KİMLİKLERİ

LENİTME

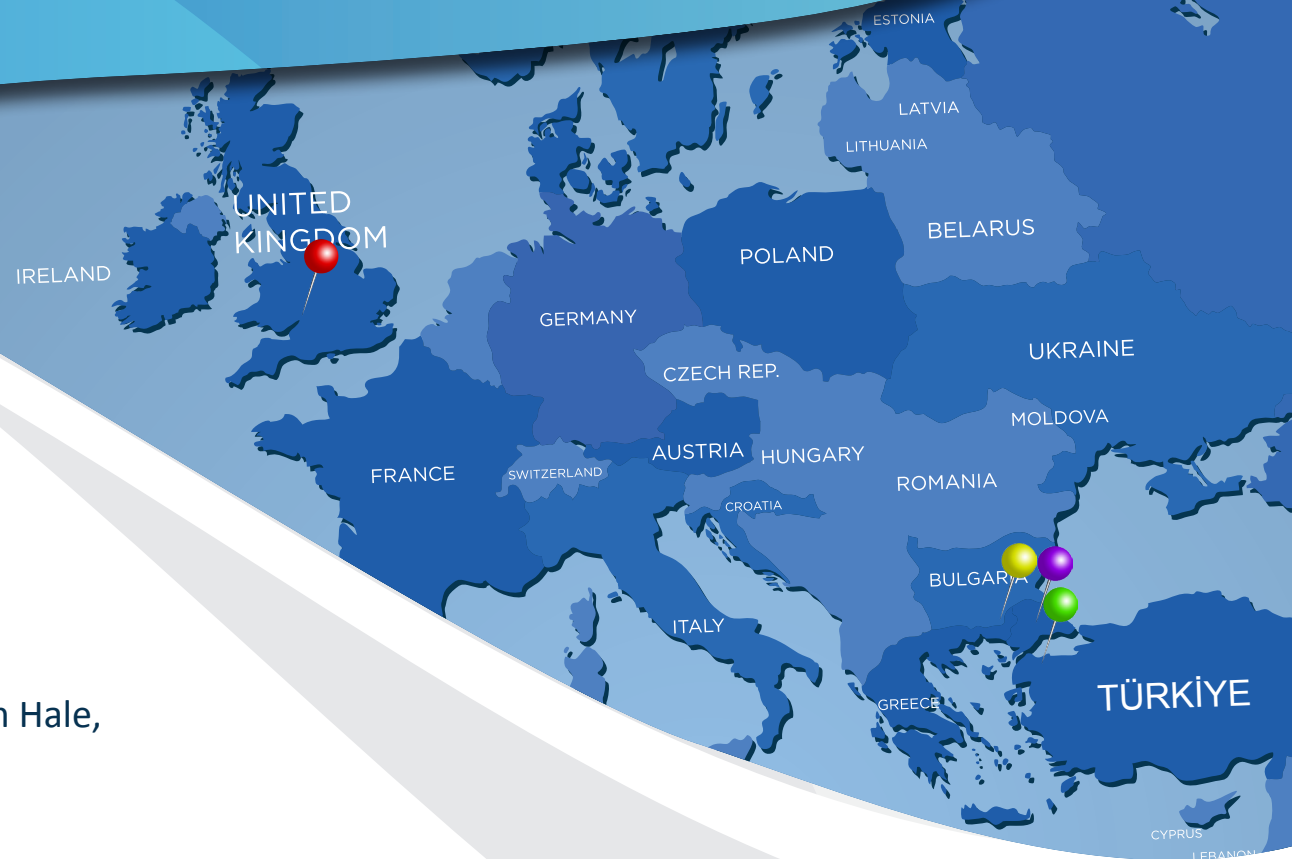


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