



حديد الكويت KUWAIT STEEL

PRODUCTS CATALOGUE

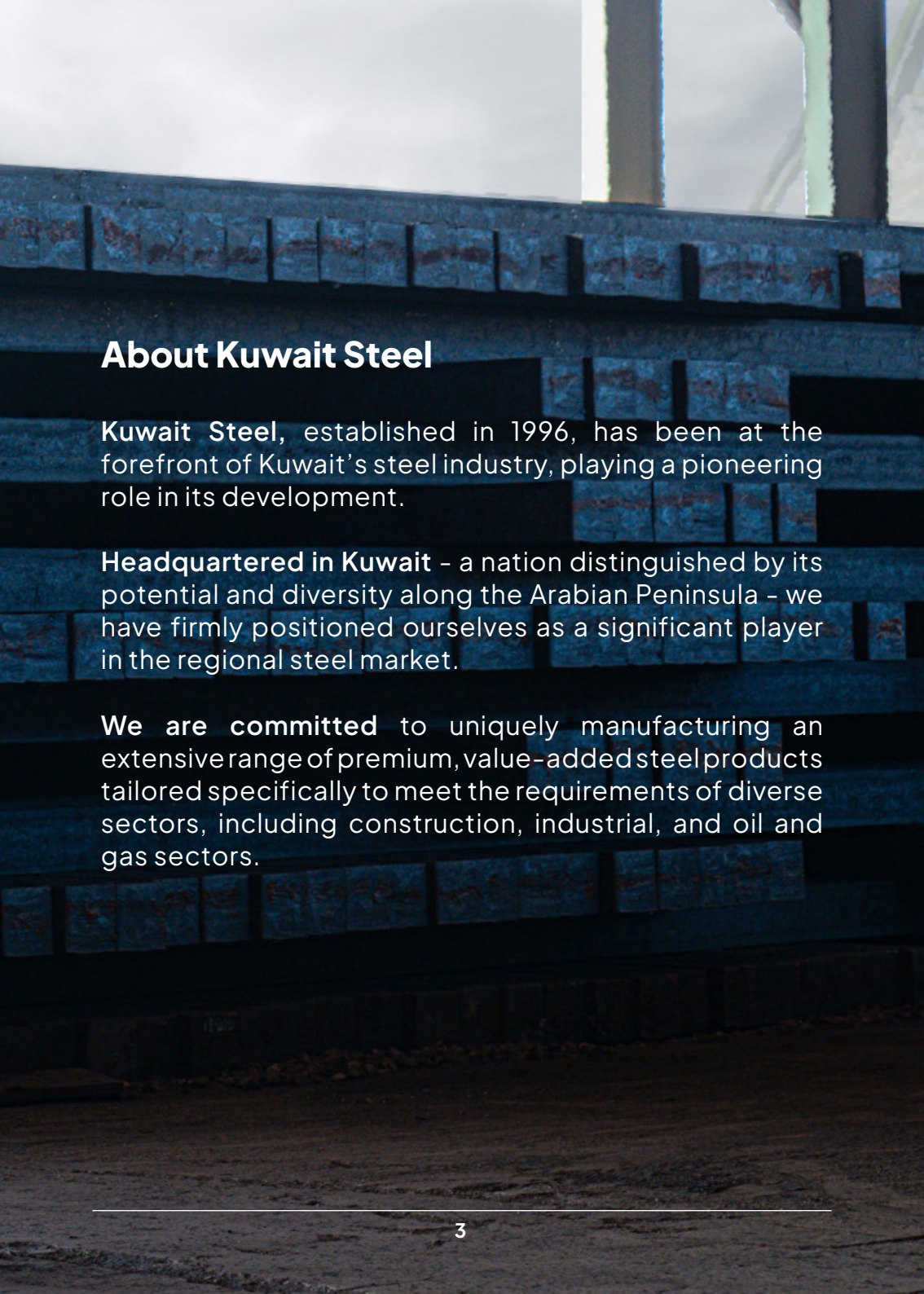
SOLID FOUNDATION FOR FUTURE GENERATIONS

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About Kuwait Steel

Kuwait Steel, established in 1996, has been at the forefront of Kuwait's steel industry, playing a pioneering role in its development.

Headquartered in Kuwait - a nation distinguished by its potential and diversity along the Arabian Peninsula - we have firmly positioned ourselves as a significant player in the regional steel market.

We are committed to uniquely manufacturing an extensive range of premium, value-added steel products tailored specifically to meet the requirements of diverse sectors, including construction, industrial, and oil and gas sectors.



Our Foundation

Precision Steelmaking for Superior Structural Integrity

Kuwait Steel is the largest steel producer in Kuwait utilizing advanced Electric Arc Furnace (EAF) technology. Our exclusive use of EAF steelmaking capacity positions us distinctively within Kuwait by offering unparalleled precision and consistency in steel production.

Through meticulous control over metallurgical processes, we achieve exceptional accuracy in steel chemistry, ensuring uniformity and predictability. This precision translates directly into superior mechanical properties, providing steel products characterized by consistently high tensile strength, excellent ductility, and enhanced weldability.

Our advanced EAF process excels in purifying steel by effectively eliminating impurities, resulting in exceptionally high-purity steel. Consequently, our rebar products stand out, delivering unmatched reliability and performance, particularly suited for demanding high-stress structural applications.

With Kuwait Steel's commitment to quality and precision, clients can confidently rely on our steel for both general and critical construction projects where structural integrity and safety are paramount.

Our Vision

To shape the future of steel by becoming the region's most innovative and trusted steel partner—driving economic growth, advancing infrastructure, and setting world-class benchmarks from Kuwait to global markets.

Our Mission

At Kuwait Steel we produce world-class steel that builds resilient communities, fuels innovation, and shapes a sustainable future. We are committed to excellence, forging trusted partnerships through unmatched quality, service and integrity.

Our Values

Our Values shape every ton of steel produced and every Partnership we build. From Integrity and Innovation to Excellence and Safety, we live our purpose – delivering world-class steel that strengthens Communities, Empowers Progress, and earns Global Trust.



REBAR





PRODUCT SPECIFICATION

STANDARD SPECIFICATION & GRADE

STANDARD SPECIFICATION & GRADE	SS 560:2016	KWS GS O ISO 6935-2	KWS GSO ISO 6935-2	Nominal Unit Mass
NOMINAL DIAMETER, d (mm)	Grade B500C	Grade B400B-R	Grade B500BWR	(kg/m)
	-	8	8	0.395
	10	10	10	0.617
	12	12	12	0.888
	14	14	14	1.208
	16	16	16	1.578
	18	18	18	1.998
	20	20	20	2.466
	22	22	22	2.984
	25	25	25	3.853
	28	28	28	4.834
	32	32	32	6.313
	-	36	36	7.990
	-	40	40	9.865

MASS TOLERANCE

STANDARD SPECIFICATION	ASTM	BS 4449:2005 CS2:2012 and SS 560:2016		KWS GSO ISO 6935-2 Grade B400B-R and Grade B500BWR			
REBAR SIZE	ALL REBAR SIZES	d ≤ 8mm	d > 8mm	d ≤ 8mm	10mm - 12mm	14mm - 22mm	25mm - 40mm
WEIGHT VARIATION	-6.0%	±6.0%	±4.5%	±8.0%	±6.0%	±5.0%	±4.0%



CHEMICAL PROPERTIES

CHEMICAL COMPOSITION (MAXIMUM %BY MASS)*

STANDARD SPECIFICATION AND GRADE	ASTM A615M-22 Grade 40	ASTM A615M-22 Grade 60	ASTM A615M-22 Grade 75	ASTM A615M-22 Grade 80	ASTM A615M-22 Grade 100	STANDARD SPECIFICATION AND GRADE	ASTM A706M-22 Grade 60	ASTM A706M-22 Grade 80	SASO ASTM A615M-22 Grade 60	SASO ASTM A615M-22 Grade 80	SASO ASTM A615M-22 Grade 100
C	-	-	-	-	-	C	0.30	0.30	-	-	-
Mn	-	-	-	-	-	Mn	1.50	1.50	-	-	-
Si	-	-	-	-	-	Si	0.50	0.50	-	-	-
P	0.06	0.06	0.06	0.06	0.06	P	0.035	0.035	0.060	0.060	0.060
S	-	-	-	-	-	S	0.045	0.045	-	-	-
N	-	-	-	-	-	N	-	-	-	-	-
Cu	-	-	-	-	-	Cu	-	-	-	-	-
Ceq	-	-	-	-	-	Ceq	0.55	0.55	-	-	-

*Cast Analysis

- a. It is permitted to exceed the maximum values of carbon by **0.03%** by mass, provided that the carbon equivalent value is decrease by **0.02%** by mass.
b. Higher nitrogen contents are permissible if sufficient quantities of nitrogen binding elements are present.

STANDARD SPECIFICATION AND GRADE	BS 4449:2005 Grade B500B	BS 4449:2005 Grade B500C	ISO 6935-2 Grade B500BWR	CS2:2012 Grade 500B	CS2:2012 Grade 500C	STANDARD SPECIFICATION AND GRADE	SS 560:2016 Grade B500B	SS 560:2016 Grade B500C	KWS GSO ISO 6935-2 Grade B400B-R	KWS GSO ISO 6935-2 Grade B500BWR
C	0.22 ^a	0.22 ^a	0.22	0.22 ^a	0.22 ^a	C	0.22 ^a	0.22 ^a	-	0.22
Mn	-	-	1.60	-	-	Mn	-	-	-	1.60
Si	-	-	0.60	-	-	Si	-	-	-	0.60
P	0.05	0.05	0.050	0.05	0.05	P	0.05	0.05	0.060	0.050
S	0.05	0.05	0.050	0.05	0.05	S	0.05	0.05	0.060	0.050
N	0.012 ^b	0.012 ^b	0.012 ^b	0.012 ^b	0.012 ^b	N	0.012 ^b	0.012 ^b	-	0.012 ^b
Cu	0.80	0.80	-	0.80	0.80	Cu	0.80	0.80	-	-
Ceq	0.50	0.50	0.50	0.50	0.50	Ceq	0.50	0.50	-	0.50

*Cast Analysis

- a. It is permitted to exceed the maximum values of carbon by **0.03%** by mass, provided that the carbon equivalent value is decrease by **0.02%** by mass.
b. Higher nitrogen contents are permissible if sufficient quantities of nitrogen binding elements are present.



PRODUCT SPECIFICATION

MECHANICAL COMPOSITION

STANDARD SPECIFICATION AND GRADE		BS 4449:2005 Grade B500B		BS 4449:2005 Grade B500C		ISO 6935-2 Grade B500BWR			CS2:2012 Grade 500B		CS2:2012 Grade 500C	
Minimum Yield Strength (Mpa)		500		500		500			500		500	
Maximum Yield Strength (Mpa)		650		650		-			650		650	
Minimum Tensile Strength (Mpa)		-		-		-			-		-	
Minimum TS/YS		1.08		≥1.15, <1.35		1.08			1.08		≥1.15, <1.35	
ELONGATION	Rebar Size (mm)	8-40		10-32		10-40			10-40		10-32	
	Minimum Elongation (after fracture, A5)%	-		-		14			-		-	
	Minimum Elongation (@ Maximum force, Agt)%	5.0		7.5		5.0			5.0		7.5	
BEND / REBEND TEST	Bend Angle	90°		90°		90°			90°		90°	
	Rebend Angle	20°		20°		20°			20°		20°	
	Rebar Size	d≤16	d>16	d≤16	d>16	d≤16	16<d≤32	32<d≤40	d≤16	d>16	d≤16	d>16
	Bending Pin Diameter (mm)	4d	7d	4d	7d	3d	6d	7d	4d	7d	4d	7d
WELDABILITY**		Yes		Yes		Yes			Yes		Yes	

**The use of the latest edition of AWS D1.4/D1.4M is recommended.

STANDARD SPECIFICATION AND GRADE		SS 560:2016 Grade B500B		SS 560:2016 Grade B500C		KWS GSO ISO 6935-2 Grade B400B-R			KWS GSO ISO 6935-2 Grade B500BWR		
Minimum Yield Strength (Mpa)		500		500		400			500		
Maximum Yield Strength (Mpa)		650		650		-			-		
Minimum Tensile Strength (Mpa)		-		-		-			-		
Minimum TS/YS		1.08		≥1.15, <1.35		1.08			1.08		
ELONGATION	Rebar Size (mm)	10-40		10-32		8-40			8-40		
	Minimum Elongation (after fracture, A5)%	-		-		14			14		
	Minimum Elongation (@Maximum force, Agt)%	5.0		7.5		5.0			5.0		
BEND / REBEND TEST	Bend Angle	90°		90°		90°			90°		
	Rebend Angle	20°		20°		20°			20°		
	Rebar Size	d≤16	d>16	d≤16	d>16	d≤16	16<d≤32	32<d≤40	d≤16	16<d≤32	32<d≤40
	Bending Pin Diameter (mm)	4d	7d	4d	7d	3d	6d	7d	3d	6d	6d
WELDABILITY**		Yes		Yes		-			Yes		

**The use of the latest edition of AWS D1.4/D1.4M is recommended.



MECHANICAL PROPERTIES

STANDARD SPECIFICATION AND GRADE		ASTM A706M-22 Grade 60				ASTM A706M-22 Grade 80				SASO ASTM A615M-22 Grade 60				SASO ASTM A615M-22 Grade 80				SASO ASTM A615M-22 Grade 100			
Minimum Yield Strength (Mpa)		420				550				420				550				690			
Maximum Yield Strength (Mpa)		540				675				-				-				-			
Minimum Tensile Strength (Mpa)		550				690				550				690				790			
Minimum TS/YS		1.25				1.25				1.10				1.10				1.10			
ELONGA- TION	Rebar Size (mm)	8~22	25~36	40		8~36	40		8~22	25	28~40		8~25	28~40		8~25	28~40				
	Minimum Elongation (after fracture, A5)%	14	12	10		12	10		9	8	7		7	6		7	6				
	Minimum Elongation (@ Maximum force, Agt)%	-				-		-				-				-					
BEND / REBEND TEST	Bend Angle	180°				180°				180°				180°				180°			
	Rebend Angle	-				-				-				-				-			
	Rebar Size	8~18	20~25	28~36	40	8~18	20~25	28~36	40	8~18	20~25	28~36	40	8~25	28~36	8~25	8~25	28~36	8~25		
	Bending Pin Diameter (mm)	3d	4d	6d	8d	3.5d	5d	7d	9d	3.5d	5d	9d	9d	5d	7d	9d	5d	7d	9d		
WELDABILITY**		Yes				Yes				-				-							

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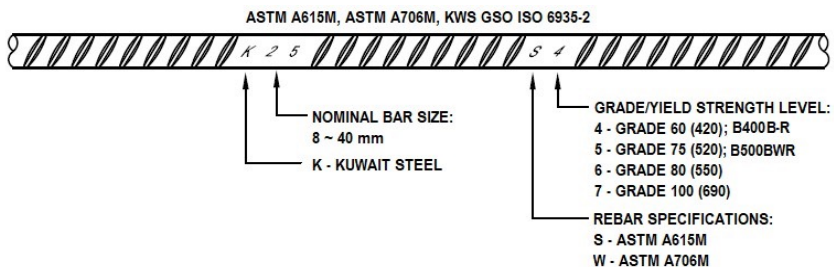
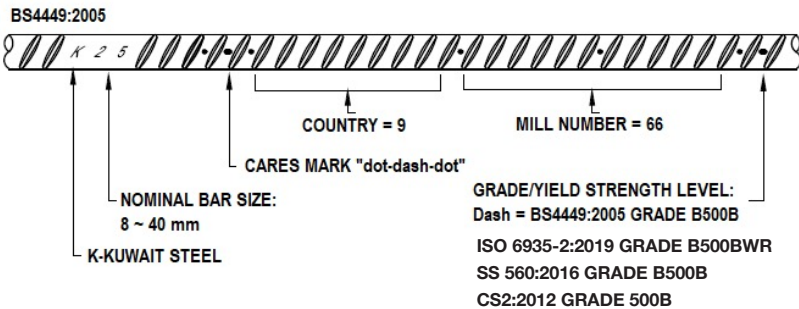
MECHANICAL PROPERTIES

STANDARD SPECIFICATION AND GRADE		ASTM A615M-22 Grade 40		ASTM A615M-22 Grade 60			ASTM A615M-22 Grade 75			ASTM A615M-22 Grade 80		ASTM A615M-22 Grade 100	
Minimum Yield Strength (Mpa)		280		420			520			550		690	
Maximum Yield Strength (Mpa)		-		-			-			-		-	
Minimum Tensile Strength (Mpa)		420		550			690			690		790	
Minimum TS/YS		1.10		1.10			-			1.10		1.10	
ELONGATION	Rebar Size (mm)	8-10	12-20	8-22	25	28-40	8-25	28-40	8-25	28-40	8-25	28-40	
	Minimum Elongation (after fracture, A5)%	11	12	9	8	7	7	6	7	6	7	6	
	Minimum Elongation (@Maximum force, Agt)%	-		-			-			-		-	
BEND / REBEND TEST	Bend Angle	180°		180°			180°			180°		180°	
	Rebend Angle	-		-			-			-		-	
	Rebar Size	8-18	20	8-18	20-25	28-36	40	8-25	28-36	8-25	8-25	28-36	8-25
	Bending Pin Diameter (mm)	3.5d	5d	3.5d	5d	7d	9d	5d	7d	9d	5d	7d	9d
WELDABILITY**		-		-			-			-			

**The use of the latest edition of AWS D1.4/D1.4M is recommended.



REBAR MARKINGS



NOTE: FOR KWS GSO ISO 6935-2 REBAR MARKINGS SHALL FOLLOW ASTM PROVISIONS



NOMINAL DIAMETER

STANDARD SPECIFICATION & GRADE	ASTM A615M-22					ASTM A706M-22		SASO ASTM A615M-22			BS 4449:2005
NOMINAL DIAMETER, d (mm)	Grade										
	40	60	75	80	100	60	80	60	80	100	B500B
	8	8	8	8	8	8	8	8	8	8	8
	10	10	10	10	10	10	10	10	10	10	10
	12	12	12	12	12	12	12	12	12	12	12
	14	14	14	14	14	14	14	14	14	14	14
	16	16	16	16	16	16	16	16	16	16	16
	18	18	18	18	18	18	18	18	18	18	18
	20	20	20	20	20	20	20	20	20	20	20
	-	22	22	22	22	22	22	22	22	22	22
	-	25	25	25	25	25	25	25	25	25	25
	-	28	28	28	28	28	28	28	28	28	28
	-	32	32	32	32	32	32	32	32	32	32
	-	36	36	36	36	36	36	36	36	36	36
	-	40	40	40	40	40	40	40	40	40	40

STANDARD SPECIFICATION & GRADE	BS 4449:2005	ISO 6935-2	CS2:2012	CS2:2012	SS 560:2016
NOMINAL DIAMETER, d (mm)	Grade B500C	Grade B500BWR	Grade 500B	Grade B500B	Grade 500B
	-	-	-	-	-
	10	10	10	10	10
	12	12	12	12	12
	14	14	14	14	14
	16	16	16	16	16
	18	18	18	18	18
	20	20	20	20	20
	22	22	22	22	22
	25	25	25	25	25
	28	28	28	28	28
	32	32	32	32	32
	-	36	36	-	36
	-	40	40	-	40



BILLET



PRODUCT SPECIFICATION

CHEMICAL COMPOSITION (MAXIMUM % BY MASS)*

STANDARD SPECIFICATION AND GRADE	ASTM A615M-22 Grade 40	ASTM A615M-22 Grade 60	ASTM A615M-22 Grade 75	ASTM A615M-22 Grade 80	ASTM A615M-22 Grade 100	STANDARD SPECIFICATION AND GRADE	ASTM A706M-22 Grade 60	ASTM A706M-22 Grade 80	SASO ASTM A615M-22 Grade 60	SASO ASTM A615M-22 Grade 80	SASO ASTM A615M-22 Grade 100
C	-	-	-	-	-	C	0.30	0.30	-	-	-
Mn	-	-	-	-	-	Mn	1.50	1.50	-	-	-
Si	-	-	-	-	-	Si	0.50	0.50	-	-	-
P	0.06	0.06	0.06	0.06	0.06	P	0.035	0.035	0.060	0.060	0.060
S	-	-	-	-	-	S	0.045	0.045	-	-	-
N	-	-	-	-	-	N	-	-	-	-	-
Cu	-	-	-	-	-	Cu	-	-	-	-	-
Ceq	-	-	-	-	-	Ceq	0.55	0.55	-	-	-

*Cast Analysis

a. It is permitted to exceed the maximum values of carbon by 0.03% by mass, provided that the carbon equivalent value is decrease by 0.02% by mass.
b. Higher nitrogen contents are permissible if sufficient quantities of nitrogen binding elements are present.

STANDARD SPECIFICATION AND GRADE	BS 4449:2005 Grade B500B	BS 4449:2005 Grade B500C	ISO 6935-2 Grade B500BWR	CS2:2012 Grade 500B	CS2:2012 Grade 500C	STANDARD SPECIFICATION AND GRADE	SS 560:2016 Grade B500B	SS 560:2016 Grade B500C	KWS GSO ISO 6935-2 Grade B400B-R	KWS GSO ISO 6935-2 Grade B500BWR
C	0.22 ^a	0.22 ^a	0.22	0.22 ^a	0.22 ^a	C	0.22 ^a	0.22 ^a	-	0.22
Mn	-	-	1.60	-	-	Mn	-	-	-	1.60
Si	-	-	0.60	-	-	Si	-	-	-	0.60
P	0.05	0.05	0.050	0.05	0.05	P	0.05	0.05	0.060	0.050
S	0.05	0.05	0.050	0.05	0.05	S	0.05	0.05	0.060	0.050
N	0.012 ^b	0.012 ^b	0.012 ^b	0.012 ^b	0.012 ^b	N	0.012 ^b	0.012 ^b	-	0.012 ^b
Cu	0.80	0.80	-	0.80	0.80	Cu	0.80	0.80	-	-
Ceq	0.50	0.50	0.50	0.50	0.50	Ceq	0.50	0.50	-	0.50

*Cast Analysis

a. It is permitted to exceed the maximum values of carbon by 0.03% by mass, provided that the carbon equivalent value is decrease by 0.02% by mass.
b. Higher nitrogen contents are permissible if sufficient quantities of nitrogen binding elements are present.



QUICKLIME & DOLOLIME



DOLOLIME

DOLOLIME						
SPECIFICATION	CaO	MgO	LOI*	CO2	Moisture*	Bulk Density
CHEMICAL RANGE	54% minimum	32% minimum	6% max.	6% max.	1.0% max.	1.0 t/m3
SIZE DISTRIBUTION	10mm to 70mm - 85% Minimum					
	< 10mm - 10% Maximum					
	> 70mm - 5% Max					
* At Kuwait Steel Production Site.						

QUICKLIME

QUICKLIME						
SPECIFICATION	CaO	MgO	LOI*	CO2	Moisture*	Bulk Density
CHEMICAL RANGE	92% minimum	2.0% max.	5% max.	5% max.	1.0% max.	1.0 t/m3
SIZE DISTRIBUTION	10mm to 70mm - 85% minimum					
	< 10mm - 10% maximum					
	> 70mm - 5% Max					
* At Kuwait Steel Production Site.						



QUALITY CONTROL



Validate with the
CARES Cloud App



Validate with the
CARES Cloud App



Validate with the
CARES Cloud App



Validate with the
CARES Cloud App



TL-1146



ISO 6935-2



وزارة الأشغال العامة
Ministry of Public Works



المؤسسة العامة للرعاية السكنية
Public Authority for Housing Welfare



المواصفات السعودية
Saudi Standards



ISO 30414:2018



Kuwait Steel operates a quality system that is accredited to conform to the requirements and best practices of the following:

1. Quality Management System **ISO 9001:2015** certified by UK CARES
2. Quality Management System **ISO 9001:2015** certified by TUV Germany.
3. Occupational Health and safety Management System **ISO 45001:2018** certified by TUV Germany.
4. Environment Management System **ISO 14001:2015** certified by TUV Germany.
5. Kuwait Quality Mark for KWS GSO **ISO 6935-2:2012** by Public Authority for Industry.
6. ISO/IEC Standard **17025:2017** General Requirements for The Competence of Testing and Calibration Laboratories certified by IAS International Accreditation Service.
7. ISO **30414:2018** Human Resource Management System.
8. SASO Quality Mark for SASO ASTM **A615/A615M:2021** from the Saudi Standards, Metrology, and Quality Organization.
9. UKCARES Certifications :
 - Quality Management System **ISO 9001:2015**
 - SS560:2016** Grade B500B Bar 10 to 40mm
 - SS560:2016** Grade B500C Bar 10 to 32mm
 - CS2:2012** 500B Bar 10 to 40mm
 - CS2:2012** 500C Bar 10 to 32mm
 - BS 4449:2005** Grade B500B Bar 8 to 40mm
 - BS 4449:2005** Grade B500C Bar 10 to 32mm
 - ISO 6935-2:2019** Grade B500BWR Bar 10 to 40mm
10. Kuwait Steel Grade 60 rebar steel is accredited by the Kuwait Ministry of Public Works for use in construction project.
11. Kuwait Public Authority of Housing Welfare accredited Kuwait Steel's rebars for it's construction projects.

CONTACT US

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