

# *IRAN ALLOY STEEL CO.*

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## *Technical Specification Document*

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*Document No.*

ED95195

*IASCo Code*

7005040005

*REF. Code*

KH26386

*Description*

Well Block



IRAN ALLOY STEEL CO.



شرکت فولاد آلیاژی ایران

IRAN ALLOY STEEL CO.			شرکت فولاد آلیاژی ایران	
Date	1398/07/03	دفترچه مشخصات فنی Technical Specification Document	Document No	ED95195
IASCo Code	7005040005		Material	SEE ANNEX
Description	Well Block		Pos	-
DWG No.	ED1203R3601040		Rev.	00

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## ۱- ابزار آلات اندازه گیری مورد نیاز

- کولیس
- متر
- زاویه سنج



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## ۲- بازرسی

TEST CODE	DESCRIPTION OF TEST	STD TEST	INSPECTION TYPE	REQUIRED TEST	REMARK
-	Analyze of material	Report of a valid laboratory/company	R	<input checked="" type="checkbox"/>	
58	Visual and dimensional check	Dwg & Specif.	R	<input checked="" type="checkbox"/>	
-	Fit up	DANIELI 2.8.114 DANIELI 2.8.115	H	<input type="checkbox"/>	
40	NDT on welding	DANIELI 2.8.114 DANIELI 2.8.115	R See Table 1	<input type="checkbox"/>	
30,41,42, 43,44	NDT on casting	DANIELI 2.8.004 DANIELI 2.8.005 DANIELI 2.8.017	R See Table 1	<input type="checkbox"/>	
03,04,17, 31	NDT on forging & rolled bars	DANIELI 2.8.001 DANIELI 2.8.009	R See Table 1	<input type="checkbox"/>	
-	Tensile test	ISO 6892	R	<input type="checkbox"/>	
12	Metallographic structure	DANIELI 2.8.004 DANIELI 2.8.017	R	<input type="checkbox"/>	
05,06,13, 14,16	Heat treatment cycle	DANIELI 2.8.300	R See Table 2	<input type="checkbox"/>	
11	Hardness measurement	DANIELI 2.8.101	R	<input type="checkbox"/>	
23	Surface hardening depth measurement	ISO 3754	R	<input type="checkbox"/>	
-	Coating	Report of a valid laboratory/company	R See Table 3	<input type="checkbox"/>	
-	Thick. Measurement of coatings	DANIELI 2.8.304 DANIELI 2.8.305	R	<input type="checkbox"/>	
57	Balancing	DANIELI 2.8.102 DANIELI 2.8.105	R	<input type="checkbox"/>	
25	Pressure leak test	DANIELI 2.8.102	R	<input type="checkbox"/>	
55	Surface Protection inspection, painting	DANIELI 2.8.302	R	<input type="checkbox"/>	
-	Packing	DANIELI 2.8.002	H	<input type="checkbox"/>	

TABLE 1

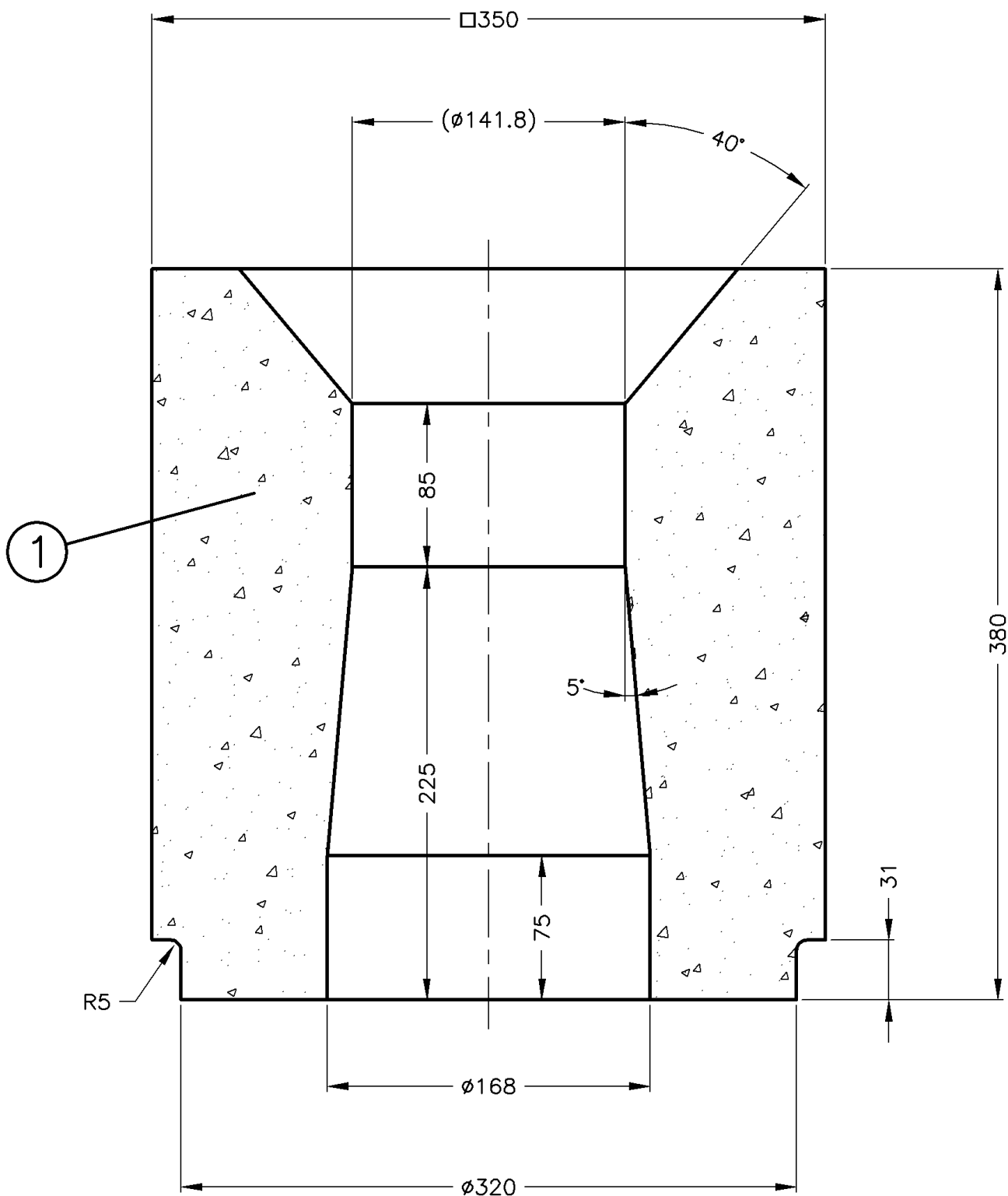
		% Non-destructive examinations					
		VT	DT	PT	MT	UT	RT
WELDS	Butt welds	-	-	-	-	-	-
	Fillet welds and/or partial(full) penetration welds	-	-	-	-	-	-
CASTING		-	-	-	-	-	-
FORGING		-	-	-	-	-	-

TABLE 2

Heating in Vacuum furnace	Annealing	Normalizing	Quenching	Tempering	Induction hardening	Nitriding	Cementation	Stress relieving
-	-	-	-	-	-	-	-	-

TABLE 3

COATING	Hard chromium plating	Chrome oxide coating	Zinc galvanizing	Coating powders	Phosphating
Required test	-	-	-	-	-



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PIECES PER PACK

DO NOT SCALE

DIMENSIONS mm

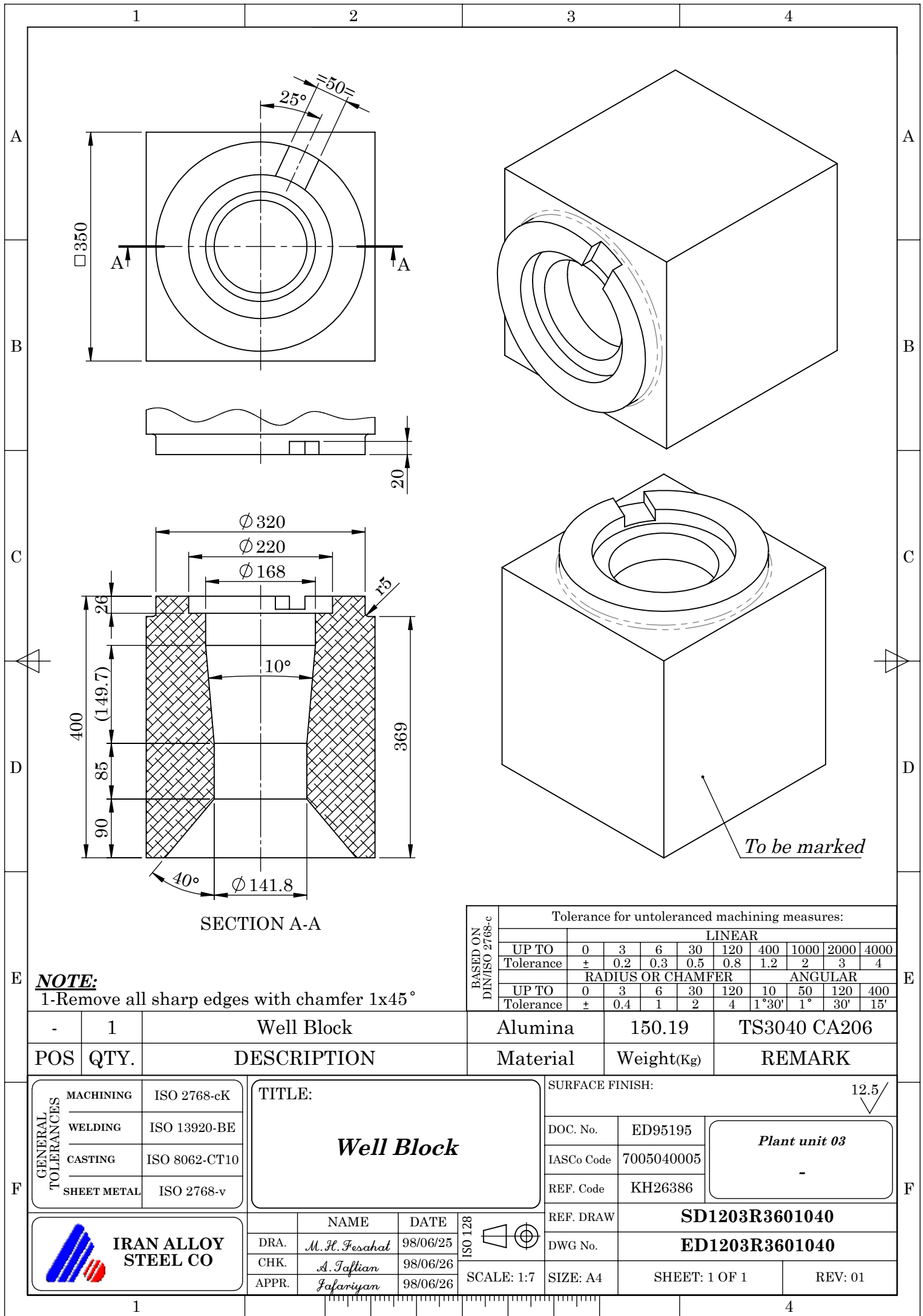


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KH26386

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DATE	21/12/11	



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#### ۴- مشخصات مواد اولیه

##### ۴-۱- ترکیب شیمیایی و مشخصات عملیات حرارتی

##### ۴-۲- خواص مکانیکی

به پیوست ارائه می گردد



# ACCURATUS

## CERAMIC CORPORATION

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### 96% Alumina Material Properties

Mechanical	Units of Measure	SI/Metric	(Imperial)
Density	gm/cc (lb/ft <sup>3</sup> )	3.72	(232.2)
Porosity	% (%)	0	(0)
Color	—	white	—
Flexural Strength	MPa (lb/in <sup>2</sup> x10 <sup>3</sup> )	345	(50)
Elastic Modulus	GPa (lb/in <sup>2</sup> x10 <sup>6</sup> )	300	(43.5)
Shear Modulus	GPa (lb/in <sup>2</sup> x10 <sup>6</sup> )	124	(18)
Bulk Modulus	GPa (lb/in <sup>2</sup> x10 <sup>6</sup> )	172	(25)
Poisson's Ratio	—	0.21	(0.21)
Compressive Strength	MPa (lb/in <sup>2</sup> x10 <sup>3</sup> )	2100	(304.5)
Hardness	Kg/mm <sup>2</sup>	1100	—
Fracture Toughness K <sub>IC</sub>	MPa•m <sup>1/2</sup>	3.5	—
Maximum Use Temperature (no load)	°C (°F)	1700	(3090)
Thermal			
Thermal Conductivity	W/m•°K (BTU•in/ft <sup>2</sup> •hr•°F)	25	(174)
Coefficient of Thermal Expansion	10 <sup>-6</sup> /°C (10 <sup>-6</sup> /°F)	8.2	(4.6)
Specific Heat	J/Kg•°K (Btu/lb•°F)	880	(0.21)
Electrical			
Dielectric Strength	ac-kv/mm (volts/mil)	14.6	(365)
Dielectric Constant	@ 1 MHz	9.0	(9.0)
Dissipation Factor	@ 1 kHz	0.0011	(0.0011)
Loss Tangent	@ 1 kHz	—	—
Volume Resistivity	ohm•cm	>10 <sup>14</sup>	—

\*All properties are room temperature values except as noted.

The data presented is typical of commercially available material and is offered for comparative purposes only. The information is not to be interpreted as absolute material properties nor does it constitute a representation or warranty for which we assume legal liability. User shall determine suitability of the material for the intended use and assumes all risk and liability whatsoever in connection therewith.

ACCURATUS: *Latin* – careful, precise, accurate

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## ۵- نحوه بسته بندی و شرایط نگهداری

☒ قطعه نیاز به پالت دارد

☐ نگهداری در انبار روباز بلامانع می باشد

☐ قسمت‌های تلورانسی و حساس با گریس ضد خوردگی پوشش داده شود

☐ جهت جابجایی فقط از مکان‌های مجاز قابل حمل می باشد

☐ بسته بندی نیاز به ضربه پذیری دارد

توضیحات: