



**TOSÇELİK**  
PROFILE & SHEET IND. CO.

**TOSYALI  
HOLDİNG**



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**PETROL SONDAJ VE SONDAJ  
MUHAFAZA BORULARI  
TUBING AND CASING PIPES**

## Ürün Spesifikasyon Seviyesi | Product Specification Level

- PSL 1 - Grup 1 | PSL 1 - Group 1

## Kullanım Yerleri | Field of Applications

Petrol Kuyuları için sondaj ve sondaj muhafaza boruları  
Tubing and Casing Pipes For Oil Wells

## Boru Uçları | Finishing Operations

Düz Uçlu | Square Cut  
Kaynak Ağızı ( Müşteri isteği ile )  
Bevelled End ( by agreement with the customer)

## Yüzey Durumu | Surface Protection

Su bazlı Boyalı (Müşteri isteği ile)  
Water Based Primer Coated ( by agreement with the customer)

## Test Sertifikası | Mill Test Certificates

EN 10204 (TS EN 10204 )'e göre 2.1, 2.2, 3.1, 3.2 belgeleri  
According to EN 10204 2.1 , 2.2 , 3.1 , 3.2

## Uzunluk | Length

1.050" - 3 1/2" = 5 - 8 m (1/2" - 1 1/2" = 4 - 8,5 m)

6" - 10" = 5 - 13 m (2" - 6" = 5-14 m) (6" - 13 3/8" = 5 - 14.6 m)

## Üretim Matrisi | Production Range

### Muhafaza Boruları | Casing

Dış Çap   Outside Diameter		Et Kalınlığı   Wall Thickness	
inch	mm	inch	mm
4 1/2	114.3	0.205	5.21
4 1/2	114.3	0.224	5.69
4 1/2	114.3	0.250	6.35
4 1/2	114.3	0.290	7.37
4 1/2	114.3	0.337	8.56
5 1/2	139.7	0.244	6.20
5 1/2	139.7	0.275	6.98
5 1/2	139.7	0.304	7.72
5 1/2	139.7	0.361	9.17
6 5/8	168.3	0.288	7.32
6 5/8	168.3	0.352	8.94
6 5/8	168.3	0.417	10.59
6 5/8	168.3	0.475	12.06
7	177.8	0.231	5.87
7	177.8	0.272	6.91
7	177.8	0.317	8.05
7	177.8	0.362	9.19
7	177.8	0.408	10.36
7	177.8	0.453	11.51
7	177.8	0.498	12.65
7 5/8	193.7	0.300	7.62
7 5/8	193.7	0.328	8.33
7 5/8	193.7	0.375	9.52
7 5/8	193.7	0.430	10.92
7 5/8	193.7	0.500	12.70
8 5/8	219.1	0.264	6.71
8 5/8	219.1	0.304	7.72
8 5/8	219.1	0.352	8.94
8 5/8	219.1	0.400	10.16
8 5/8	219.1	0.450	11.43
8 5/8	219.1	0.500	12.70
9 5/8	244.5	0.312	7.92
9 5/8	244.5	0.352	8.94
9 5/8	244.5	0.395	10.03
9 5/8	244.5	0.435	11.05
9 5/8	244.5	0.472	11.99
10 3/4	273.1	0.279	7.09
10 3/4	273.1	0.350	8.89
10 3/4	273.1	0.400	10.16
10 3/4	273.1	0.450	11.43
10 3/4	273.1	0.495	12.57
13 3/8	339.7	0.330	8.38
13 3/8	339.7	0.380	9.65
13 3/8	339.7	0.430	10.92
13 3/8	339.7	0.480	12.19

## Üretim standartları & Çelik Kaliteleri

Production Standards & Steel Grades

API 5CT PSL 1 - Grup 1 | API 5CT PSL 1 - Group 1  
H 40 , J 55, K 55, UPGRADABLE J 55

## Kalite Kontrol | Quality Control

**A - Görsel ve Boyutsal Kontrol** | Visual and Dimensional Check

**B - Sızdırmazlık Testleri** | Leak Tightness Test  
Hidrostatik Test | Hydrostatic Test

**C - Tahribatsız Testler** | Non Destructive Tests

Girdap Akımları Testi (Müşteri isteği ile )  
Eddy Current Test (by agreement with the customer)  
Kaynak Dikişi Ultrasonik Test (Müşteri isteği ile)  
Ultrasonic Test of Weld Seam (by agreement with the customer)  
Phased Array Gövde laminasyon /Kaynak Testi (Müşteri isteği ile)  
Phased Array Test of Full Body Lamination/Weld (by agreement with the customer)  
Boru Ucu Manuel Ultrasonik Test (Müşteri isteği ile)  
Manual Ultrasonic Test of Pipe end (by agreement with the customer)  
Ultrasonik Kaynak Profil Szleme Sistemi | Ultrasonic Weld Profiling System

**D - Mekanik Testler** | Destructive Tests

Yassılma Testi | Flattening Test,  
Eğme Testi | Bending test,  
Ağız Genişletme Testi | Expanding Test  
Çekme Testi | Tensile Test  
Çentik Darbe Testi | Charpy V Notch Impact Test

**E - Kimyasal Analiz** | Chemical Analysis

Spektral Test | Spectral Analysis

**F - Drift Testi** | Drift Test

## Sondaj Boruları | Tubing

Dış Çap   Outside Diameter		Et Kalınlığı   Wall Thickness	
inch	mm	inch	mm
1.050	26.67	0.113	2.87
1.315	33.40	0.133	3.38
1.660	42.16	0.125	3.18
1.660	42.16	0.140	3.56
1.900	48.26	0.125	3.18
1.900	48.26	0.145	3.68
1.900	48.26	0.200	5.08
2 3/8	60.32	0.167	4.24
2 3/8	60.32	0.190	4.83
2 3/8	60.32	0.198	5.03
2 3/8	60.32	0.254	6.45
2 7/8	73.02	0.217	5.51
2 7/8	73.02	0.276	7.01
2 7/8	73.02	0.308	7.82
3 1/2	88.90	0.216	5.49
3 1/2	88.90	0.254	6.45
3 1/2	88.90	0.289	7.34
4 1/2	114.30	0.271	6.88
4 1/2	114.30	0.337	8.56
4 1/2	114.30	0.380	9.65

Ebatlara göre Üretilen Kaliteler | Grades produced According to Sizes

Grey	: H40
Blue	: H40 - J55(UPG)
Green	: H40 - J55 (UPG) - K55

\*Sondaj Boruları ve Gri renkli Muhafaza boruları ebatları 2012 yılı ikinci yarısında kurulan Osmaniye ERW tesislerimizde üretililecektir.

Tubing and grey Marked Casing dimensions will be able to be produced in new Osmaniye ERW plant at the second period of 2012.

## API 5 CT MUHAFAZA BORULARI | API 5 CT CASING

Dış Çap Outside Diameter		Et Kalınlığı Wall Thickness		İç Çap Inside Diameter	Standart Drift Çapı Std. Mandrel Diameter	Alternatif Drift Çapı Special Mandrel Diameter	Birim Ağırlık Mass Per Unit
inch	mm	inch	mm	mm	mm	mm	Kg/m
4 1/2	114.3	0.205	5.21	103.88	100.7	....	14.02
4 1/2	114.3	0.224	5.69	102.92	99.74	....	15.24
4 1/2	114.3	0.250	6.35	101.60	98.42	....	16.91
4 1/2	114.3	0.290	7.37	99.56	96.38	....	19.44
4 1/2	114.3	0.337	8.56	97.18	94.00	....	22.32
5	127	0.220	5.59	115.82	112.64	....	16.74
5	127	0.253	6.43	114.14	110.96	....	19.12
5	127	0.296	7.52	111.96	108.78	....	22.16
5	127	0.362	9.19	108.62	105.44	....	26.7
5 1/2	139.7	0.244	6.20	127.64	124.12	....	20.41
5 1/2	139.7	0.275	6.98	125.74	122.56	....	22.85
5 1/2	139.7	0.304	7.72	124.26	121.08	....	25.13
5 1/2	139.7	0.361	9.17	121.36	118.18	....	29.52
6 5/8	168.3	0.288	7.32	153.64	150.46	....	29.06
6 5/8	168.3	0.352	8.94	150.4	147.22	....	35.13
6 5/8	168.3	0.417	10.59	147.1	143.92	....	41.18
6 5/8	168.3	0.475	12.06	144.16	140.98	....	46.46
7	177.8	0.213	5.87	166.06	162.80	....	24.89
7	177.8	0.272	6.91	163.98	160.80	....	29.12
7	177.8	0.317	8.05	161.70	158.52	158.75	33.70
7	177.8	0.362	9.19	161.70	156.24	....	38.21
7	177.8	0.408	10.36	157.08	153.90	....	42.78
7	177.8	0.453	11.51	154.78	151.60	152.4	47.20
7	177.8	0.498	12.65	152.50	152.50	....	51.52
7 5/8	193.7	0.300	7.62	178.44	175.26	....	34.96
7 5/8	193.7	0.328	8.33	177.02	173.84	....	38.08
7 5/8	193.7	0.375	9.52	174.64	171.46	....	43.24
7 5/8	193.7	0.430	10.92	171.84	168.66	....	49.22
7 5/8	193.7	0.500	12.70	168.28	165.1	....	56.68
8 5/8	219.1	0.264	6.71	205.66	202.48	....	35.14
8 5/8	219.1	0.304	7.72	203.64	200.46	....	40.24
8 5/8	219.1	0.352	8.94	201.20	198.02	200.02	46.33
8 5/8	219.1	0.400	10.16	198.76	198.58	....	52.35
8 5/8	219.1	0.450	11.43	196.22	193.04	193.68	58.53
8 5/8	219.1	0.500	12.70	193.68	187.6	....	71.51
9 5/8	244.5	0.312	7.92	228.6	224.66	....	46.20
9 5/8	244.5	0.352	8.94	226.6	222.63	....	51.93
9 5/8	244.5	0.395	10.03	224.4	220.45	222.25	57.99
9 5/8	244.5	0.435	11.05	222.4	218.41	....	63.61
9 5/8	244.5	0.472	11.99	220.5	216.54	....	68.75
10 3/4	273.1	0.279	7.09	258.90	254.91	....	46.50
10 3/4	273.1	0.350	8.89	255.30	251.31	....	57.91
10 3/4	273.1	0.400	10.16	252.70	248.77	250.82	65.87
10 3/4	273.1	0.450	11.43	250.20	246.23	....	73.75
10 3/4	273.1	0.495	12.57	247.90	243.94	244.48	80.75
13 3/8	339.7	0.330	8.38	322.96	318.99	....	68.48
13 3/8	339.7	0.380	9.65	320.42	316.45	....	78.55
13 3/8	339.7	0.430	10.92	317.88	313.91	....	88.55
13 3/8	339.7	0.480	12.19	315.34	311.37	....	98.46

