



**UNITED
METALLURGICAL
COMPANY**



Casings

Electric welded casings are produced by Vyksa Steel Works and fully comply with API 5CT requirements.

Consistent quality of pipes is ensured by optimised production process. Pipes are high-frequency welded with constant current lead.

Pipe quality control is ensured by automatic control of welding, ultrasonic inspection of pipe weld and body, and tracking system.

Electric-welded pipes are supplied with Buttress threads, short (STC) and long (LTC) round threads. To increase tightness of Buttress threads pipes can be supplied with a fluoroplastic sealing ring. Tightness of pipes and threads is tested by means of hydraulic testing of each pipe.

According to Customer's requirements a protective coating can be applied on the external surface of pipes.

Electric-welded pipes made by VSW have the following advantages in comparison with seamless pipes:

- Less out-of-roundness that increases pipe collapse resistance from formation pressure in a well.
- Out-of-roundness tolerance limits – by 3 times less than for seamless pipes resulting in increased threshold pressure for pipes in design of casings by 15% and more depending on pipe diameter and wall thickness with enhanced performance.
- High-precision tolerance for wall thickness ($\pm 5\%$ from nominal wall thickness) as compared with seamless pipes (-12.5% , positive tolerance is limited by pipe weight that is equal to $+ 6.5\%$).
- Better surface quality preventing defects inherent in seamless pipe rolling.
- Pipe lengths - 13 ± 0.2 m (42.64 ft ± 0.66 ft) that improve conditions of casing string fit-up and running.

The Mill is a regular supplier of casing pipes for **Exploreco Energy Inc (USA), TNK-BP, Surgutneftegaz, Lukoil, GazpromNeft, Rosneft, KazMunayGas** and other oil producers.

The Mill guarantees supply of casing pipes in full conformity with customer's requirements and on time.

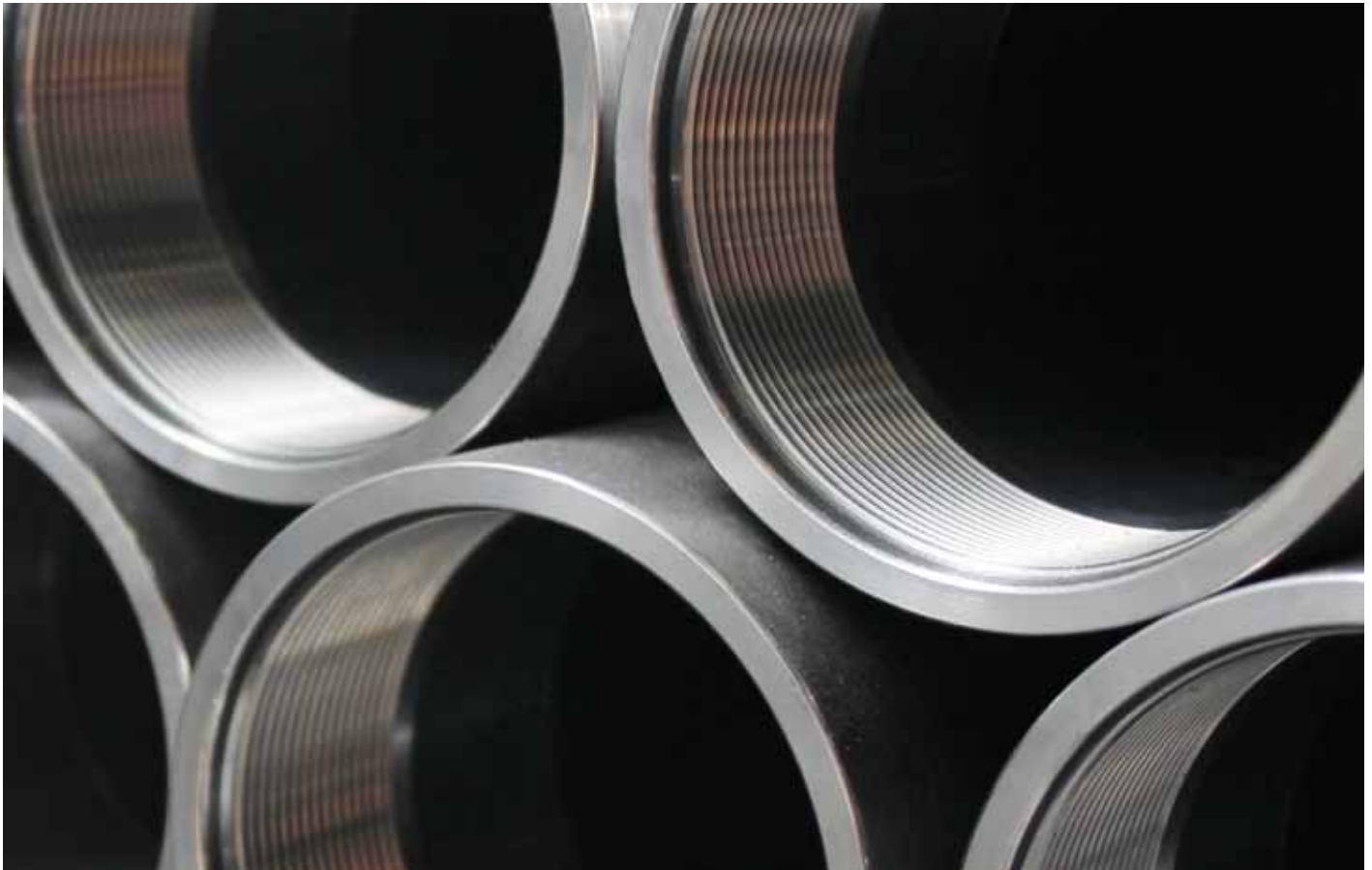
Product range and scope of application

Standard	Outside dia., inches (mm)	Nominal linear mass, lb/ft	Wall thickness, mm	Steel grade	Scope of application
API Spec 5CT	4½ (114.30)	9.50-11.60	5.21-6.35	H40, J55, N80, P110, K55, R95, L80(1)	Casing with "Buttress", round thread, STC, LTC, tight joints VMZ-1 and threadless casing for oil and gas wells fastening
	5½ (139.70)	14.00-23.00	6.20-10.54		
	6¾ (168.28)	20.00-28.00	7.32-10.59		
	7 (177.80)	20.00-29.00	6.91-10.36		
	8¾ (219.08)	24.00-36.00	6.71-10.16		
	9¾ (244.48)	32.30-43.50	7.92-11.05		

Producing mill: Vyksa Steel Works

API Spec 5CT

Diameter																						
inch		0.208	0.228	0.235	0.248	0.254	0.268	0.276	0.279	0.293	0.309	0.317	0.322	0.358	0.367	0.368	0.401	0.406	0.414	0.422	0.424	0.442
mm		5.21	5.69	5.87	6.2	6.35	6.71	6.91	6.98	7.32	7.72	7.92	8.05	8.94	9.17	9.19	10.03	10.16	10.36	10.54	10.59	11.05
4½	114.30	9.5 lb/ft	10.5 lb/ft	•	•	11.6 lb/ft																
5½	139.70				14 lb/ft	•	•	•	15.5 lb/ft	•	17 lb/ft	•	•	•	20 lb/ft	•	•	•	•	•	23 lb/ft	
6½	168.28									20 lb/ft	•	•	•	24 lb/ft	•	•	•	•	•	•	•	28 lb/ft
7	177.80			17 lb/ft	•	•	•	20 lb/ft	•	•	•	•	23 lb/ft	•	•	26 lb/ft	•	•	•	29 lb/ft		
8½	219.08						24 lb/ft	•	•	•	28 lb/ft	•	•	32 lb/ft	•	•	•	•	36 lb/ft			
9½	244.48											32.3 lb/ft	•	36 lb/ft	•	•	40 lb/ft	•	•	•	•	43.5 lb/ft



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