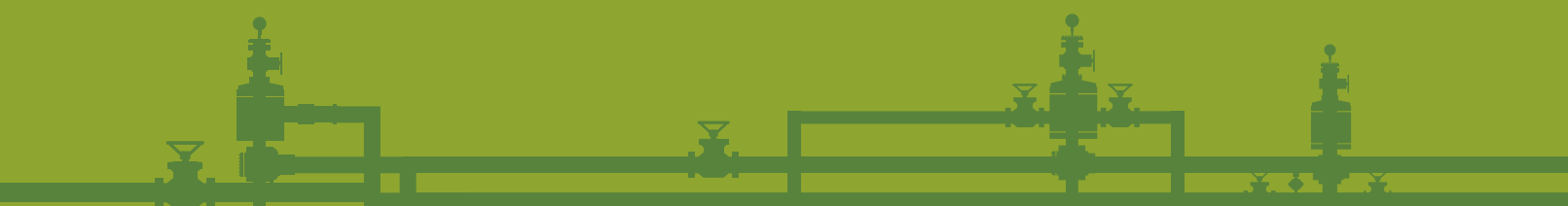




INTERPIPE

# PIPE SOLUTIONS FOR INDUSTRIAL PROJECTS. FOCUS ON EUROPEAN MARKET



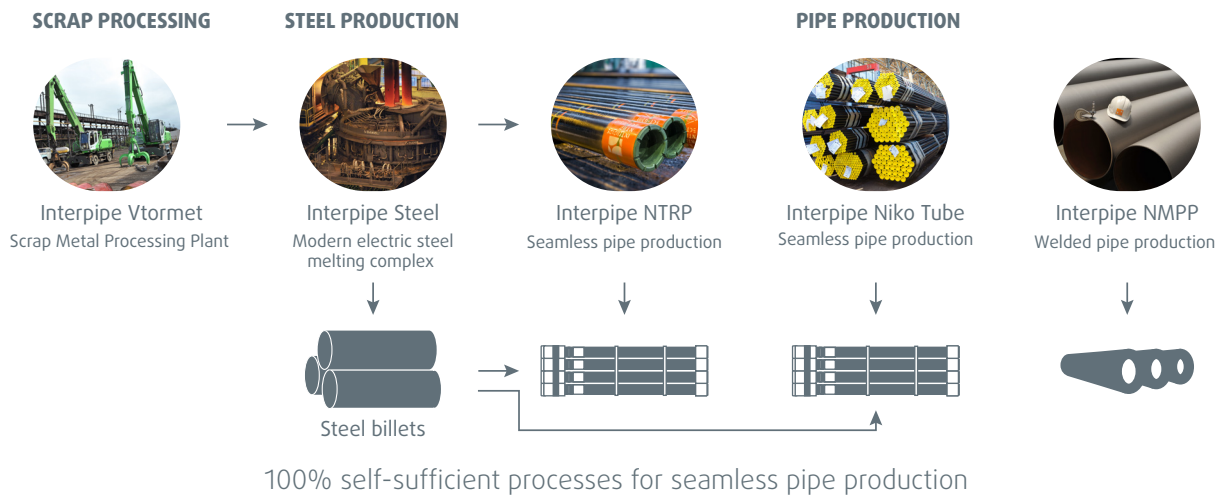
## INTERPIPE — GLOBAL STEEL PIPE PRODUCER

Interpipe is a global producer of steel pipes for all major fields of application – oil & gas exploration and transportation, power generation, mechanical and structural use.

We supply pipe products to more than 80 countries in the world through a network of sales offices in Ukraine, Russia, Kazakhstan, Europe, the USA and the Gulf.

## VERTICALLY INTEGRATED BUSINESS STRUCTURE

Interpipe has a vertically integrated business structure, which includes 5 highly efficient mills. This structure allows the company to control product quality at every stage, from steel production to the delivery of final products to customers.



## FAVOURABLE LOCATION AND COMPACT LAYOUT OF PRODUCTION ASSETS

Interpipe's mills in Ukraine are well connected to key markets in the Asia, MENA and Europe.



## INTERPIPE PROVIDES BROAD PRODUCT PORTFOLIO OF STEEL PIPES

Intepipe considers quality control as a key part of the activities to manufacture products, exceeding customer needs. Quality control is implemented at all stages of production process, starting from continuous casting at the in-house mini mill and up to nondestructive testing of pipes and shipping to customers.

Interpipe quality is confirmed by:

API 5L	EN 10210-1,2	EN 10217-1,2
API 5CT	EN 10255	ISO 9001
ASTM A53	EN 10297-1,2	ISO 14001
ASTM A106	EN 10294-1	OHSAS 18001
ASTM A333	EN 10305-1	DNV
EN 10216-1,2,3	EN 10219-1,2	Lloyds Register

## TOLERANCES

	Seamless steel pipes for pressure purposes EN 10216-1/2/3	Construction pipes EN 10210-1,2	Seamless steel pipes for mechanical and general engineering purposes EN 10297-1	Seamless pipes DIN 1629
<b>Outside diameter tolerance</b>	+/-1% or +/-0,5mm whichever is the greater	+/-1% with min of +/-0,5 mm and max of +/-10 mm	For D≤219,1 mm: +/-1% or +/-0,5 mm whichever is the greater; for D>219,1 mm : +/-1%	+/-1% (but +/-0,5 mm is permitted for pipes with D≤100mm)
<b>Wall thickness tolerance</b>	For D≤219,1 mm: +/-12,5% or +/-0,4 mm whichever is the greater	-10%, but not less than 12,5% of the nominal thickness may occur in smooth transition areas over not more than 25% of the circumstances; the positive tolerance is limited by the tolerance of mass	For D≤219,1 mm: +/-12,5% or +/-0,4 mm whichever is the greater	For D≤130 mm: from +/-9% to +15/-10%
	For D>219,1 mm: for T/D≤0,025: +/-20%; for T/D=0,025 to 0,050: +/-15%; for T/D=0,050 to 0,10: +/-12,5%; for T/D>0,10: +/-10%		For D>219,1 mm: for T/D≤0,025: +/-20%; for T/D=0,025 to 0,050: +/-15%; for T/D=0,050 to 0,10: +/-12,5%	For D≥320 mm: from +12,5/-10% to +20/-15%
<b>Straightness</b>	1,5 :1000 for whole pipe, 3:1000 over any 1m length	2:1000 for whole pipe length, 3mm over any 1m length	For D≥33,7 mm: 1,5:1000 for whole pipe length	Visually straight
<b>Out-of-roundness</b>	Out-of-roundness is defined in diameter tolerances. Eccentricity is defined in wall thickness tolerance	2% according to equation $O(\%) = \frac{OD_{max} - OD_{min}}{OD} * 100$	Out-of-roundness is defined in diameter tolerances. Eccentricity is defined in wall thickness tolerance	Out-of-roundness is defined in diameter tolerances
<b>Type name</b>	P – Pressure	S – Structural	E – Engineering	-

# MECHANICAL PROPERTIES

Steel grade	Standard	Steel number	Yield strength (ReH) minimum for wall thickness, T mm MPa (N/mm <sup>2</sup> )				Tensile strength (Rm) minimum for wall thickness, mm MPa (N/mm <sup>2</sup> )			Elongation min (A) * %			Impact properties		
			T≤16	16<T≤40	40<T≤65	65<T≤80	T≤16	16<T≤40	40<T≤65	l		t	Min.average absorbed energy		Temperature
										T≤40	40<T≤63		l	t	
			J	J	°C										
P235TR1	EN 10216-1	1.0254	235	225	215	-	360-500			25	23	-			
St 37.0	DIN 1629	1.0254	235	225	215	-	360-480			25	23	-			
P235TR2	EN 10216-1	1.0255	235	225	215	-	360-500			25	23	40	27	0	
P265TR1	EN 10216-1	1.0258	265	255	245	-	410-570			21	19	-			
St 44.0	DIN 1629	1.0256	275	265	255	-	420-550			21	19	-			
P265TR2	EN 10216-1	1.0269	265	255	245	-	410-570			21	19	40	27	0	
P235GH	EN 10216-2	1.0345	235	225	215	-	360-500			25	23	40	27	0	
P265GH	EN 10216-2	1.0425	265	255	245	-	410-570			23	21	40	27	0	
P335N	EN 10216-3	1.0545	355	345	335	315	490-550	490-630	22	20	40	27	-20		
P335NH	EN 10216-3	1.0539	355	345	335	315	490-550	490-630	22	20	40	27	-20		
P275NL1	EN 10216-3	1.0488	275	275	265	245	390-530	390-510	24	22	40	27	-40		
P275NL2	EN 10216-3	1.1104	275	275	265	245	390-530	390-510	24	22	40	27	-50		
P355NL1	EN 10216-3	1.0566	355	345	335	315	490-550	490-630	22	20	40	27	-40		
P355NL2	EN 10216-3	1.1106	355	345	335	315	490-550	490-630	22	20	40	27	-50		
E235	EN 10297-1	1.0308	235	225	215	205	360	360	360	25	23	-			
E275	EN 10297-1	1.0225	275	265	255	245	410	410	410	22	20	-			
E335	EN 10297-1	1.0580	355	345	335	315	490	490	490	20	18	-			
St 52.0	DIN 1629	1.0421	355	345	335	-	500-650			21	18	-			
E470	EN 10297-1	1.0536	470	430	-		850	600	-	17	15	-			
E275K2	EN 10297-1	1.0456	275	265	255	245	410	410	410	22	20	40	27	-20	
E355K2	EN 10297-1	1.0920	355	345	335	315	490	490	470	20	18	40	27	-20	
E420J2	EN 10297-1	1.0599	420	400	390	370	500	560	530	19	17	27	20	-20	
E460K2	EN 10297-1	1.8891	450	440	430	410	550	550	550	19	17	40	27	-20	
E590K2	EN 10297-1	1.0544	590	540	480	455	700	650	570	16	14	40	27	-20	
S235JRH	EN 10210-1	1.0039	235	225	215	215	360-610	360-610	28	25	-	27	20		
S275JOH	EN 10210-1	1.0419	275	265	255	245	430-580	410-560	23	22	-	27	0		
S275J2H	EN 10210-1	1.0138	275	265	255	245	430-580	410-580	23	22	-	27	-20		
S355J2H	EN 10210-1	1.0578	355	345	335	325	510-680	470-630	22	21	-	27	-20		
S355JOH	EN 10210-1	1.0547	355	345	335	325	510-680	470-630	22	21	-	27	0		
S355K2H	EN 10210-1	1.0512	355	345	335	325	510-680	470-630	22	21	-	40	-20		
S275NH	EN 10210-1	1.0493	275	265	255	-	370-510			24	22	40	-20		
S355NH	EN 10210-1	1.0539	355	345	335	-	470-630			22	20	40	-20		
S420NH	EN 10210-1	1.8750	420	400	390	-	520-680			19	17	40*	-20		
S460NH	EN 10210-1	1.893	450	440	430	-	540-720			17	15	40*	-20		
A 106 Gr. A	ASTM/ASME	-	205			-	330			35	-	-			
A 106 Gr. B	ASTM/ASME	-	240			-	415			30	-	-			
A 106 Gr. C	ASTM/ASME	-	275			-	485			30	-	-			
API 5L Gr. A	API	-	207			-	331			According to API		-	-		
API 5L Gr. B	API	-	241			-	413			According to API		-	-		
A 53 Gr. A	ASTM/ASME	-	205			-	330			According to ASTM		-	-		
A 53 Gr. B	ASTM/ASME	-	240			-	415			According to ASTM		-	-		

# CHEMICAL COMPOSITION (ANALYZE OF CASTING)

Type name	Standard	C		Si		Mn		P	S	Al	Cr		Cu		Mo		Nb	NI	Ti	V		Cr+Cu+Mo+Ni	N	CEV max. in % for wall		
		Min.	Max.	Min.	Max.	Min.	Max.	Max.	Max.	Min.	Min.	Max.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.	Max.	≤16	>16≤40	>40≥65
P235TR1	EN 10216-1	-	0.16	-	0.35	-	1.20	0.025	0.02	-	-	0.30	0.30	-	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	
St 37.0	DIN 1629	-	0.17	-	-	-	-	0.04	0.04	-	-	-	-	-	-	-	-	-	-	-	-	0.009	-	-	-	
P235TR2	EN 10216-1	-	0.16	-	0.35	-	1.20	0.025	0.02	0.02	-	0.30	0.30	-	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	
P265TR1	EN 10216-1	-	0.20	-	0.40	-	1.40	0.025	0.02	-	-	0.30	0.30	-	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	
St 44.0	DIN 1629	-	0.21	-	-	-	-	0.04	0.04	-	-	-	-	-	-	-	-	-	-	-	-	0.009	-	-	-	
P265TR2	EN 10216-1	-	0.20	-	0.40	-	1.40	0.025	0.02	0.02	-	0.30	0.30	-	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	
P235GH	EN 10216-2	-	0.16	-	0.35	-	1.20	0.025	0.02	0.02	-	0.30	0.30	-	0.06	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	
P265GH	EN 10216-2	-	0.20	-	0.40	-	1.40	0.025	0.02	0.02	-	0.30	0.30	-	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	
P335N	EN 10216-3	-	0.20	-	0.50	0.90	1.70	0.025	0.02	0.02	-	0.30	0.30	-	0.06	0.05	0.04	-	0.10	-	0.02	-	-	-	-	
P335NH	EN 10216-3	-	0.20	-	0.50	0.90	1.70	0.025	0.02	0.02	-	0.30	0.30	-	0.06	0.05	0.04	-	0.10	-	0.02	-	-	-	-	
E235	EN 10297-1	-	0.17	-	0.35	-	1.20	0.03	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
E275	EN 10297-1	-	0.21	-	0.35	-	1.40	0.03	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
E335	EN 10297-1	-	0.22	-	0.55	-	1.60	0.03	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
St 52.0	DIN 1629	-	0.22	-	0.55	-	1.60	0.04	0.04	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
E470	EN 10297-1	0.16	0.22	0.10	0.50	1.30	1.70	0.03	0.035	0.01	-	-	-	-	-	0.02	-	-	0.08	0.15	-	0.02	-	-	-	
E275K2	EN 10297-1	-	0.20	-	0.40	0.50	1.40	0.03	0.03	0.02	-	0.30	0.35	-	0.10	0.05	0.30	-	0.05	-	0.015	-	-	-	-	
E355K2	EN 10297-1	-	0.20	-	0.50	0.90	1.85	0.03	0.03	0.02	-	0.30	0.35	-	0.10	0.05	0.50	0.05	-	0.12	-	0.015	-	-	-	
E420J2	EN 10297-1	0.16	0.22	0.10	0.50	1.30	1.70	0.03	0.035	0.01	-	0.30	0.30	-	0.08	0.07	0.40	0.05	0.06	0.15	-	0.02	-	-	-	
E460K2	EN 10297-1	-	0.20	-	0.60	1.00	1.70	0.03	0.03	0.02	-	0.30	0.70	-	0.10	0.05	0.80	0.05	-	0.20	-	0.025	-	-	-	
E590K2	EN 10297-1	0.16	0.22	0.10	0.50	1.30	1.70	0.03	0.035	0.01	-	0.30	0.30	-	0.08	0.07	0.40	0.05	0.06	0.15	-	0.02	-	-	-	
S235JRH	EN 10210-1	-	0.17*	-	-	-	1.40	0.04	0.04	-	-	-	-	-	-	-	-	-	-	-	-	0.009	0.37	0.39	0.41	
S275J0H	EN 10210-1	-	0.20*	-	-	-	1.50	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	-	0.009	0.41	0.43	0.45	
S275J2H	EN 10210-1	-	0.20	-	-	-	1.50	0.03	0.03	0.02	-	-	-	-	-	-	-	-	-	-	-	-	0.41	0.43	0.45	
S355J2H	EN 10210-1	-	0.22	-	0.55	-	1.60	0.03	0.03	0.02	-	-	-	-	-	-	-	-	-	-	-	-	0.45	0.47	0.5	
S355K2H	EN 10210-1	-	0.22	-	0.55	-	1.80	0.03	0.03	0.02	-	-	-	-	-	-	-	-	-	-	-	-	0.45	0.47	0.5	
S275NH	EN 10210-1	-	0.20	-	0.40	0.50	1.40	0.035	0.03	0.02	-	0.30	0.35	-	0.10	0.05	0.30	0.03	-	0.08	-	0.015	0.40	0.40	-	
S420NH	EN 10210-1	-	0.22	-	0.60	1.00	1.70	0.035	0.03	0.02	-	0.30	0.70	-	0.10	0.05	0.80	0.03	-	0.20	-	0.025	0.50	0.52	-	
S460NH	EN 10210-1	-	0.22	-	0.60	1.00	1.70	0.035	0.03	0.02	-	0.30	0.70	-	0.10	0.05	0.80	0.03	-	0.20	-	0.025	0.53	0.55	-	
A 106 Gr. A	ASTM/ASME	-	0.25	0.10	-	0.27	0.93	0.035	0.035	-	-	0.40	0.40	-	0.15	-	0.40	-	-	0.08	-	-	-	-	-	
A 106 Gr. B	ASTM/ASME	-	0.30	0.10	-	0.29	1.06	0.035	0.035	-	-	0.40	0.40	-	0.15	-	0.40	-	-	0.08	-	-	-	-	-	
A 106 Gr. C	ASTM/ASME	-	0.35	0.10	-	0.29	1.06	0.035	0.035	-	-	0.40	0.40	-	0.15	-	0.40	-	-	0.08	-	-	-	-	-	
API 5L Gr. A	API	-	0.22	-	-	-	0.90	0.03	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
API 5L Gr. B	API	-	0.27	-	-	-	1.15	0.03	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 53 Gr. A	ASTM/ASME	-	0.25	-	-	-	0.95	0.06	0.046	-	-	0.40	0.40	-	0.15	-	0.40	-	-	0.08	-	-	-	-	-	
A 53 Gr. B	ASTM/ASME	-	0.30	-	-	-	1.20	0.05	0.045	-	-	0.40	0.40	-	0.15	-	0.40	-	-	0.08	-	-	-	-	-	

# SIZE RANGE ACCORDING TO EN 10210-1/EN 10216-1,2,3/EN 10297-1/DIN 1629

## Size Range

D/s, mm	Wall thickness, mm																												
	2.4	2.6	2.9	3.2	3.6	4	4.5	5	5.6	6	6.3	7.1	8	8.8	9	9.5	10	11	12	12.5	13	13.5	14	14.2	15	15.5	16	16.5	17
26.9	By agreement	By agreement																											
31.8								By agreement	By agreement	By agreement																			
33.4								By agreement	By agreement	By agreement																			
33.7								By agreement	By agreement	By agreement																			
35								By agreement	By agreement	By agreement																			
38								By agreement	By agreement	By agreement																			
42.2								By agreement	By agreement	By agreement																			
42.4								By agreement	By agreement	By agreement																			
44.5								By agreement	By agreement	By agreement																			
48.3								By agreement	By agreement	By agreement																			
51		By agreement						By agreement	By agreement	By agreement																			
54		By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement																			
57		By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement																			
60.3								By agreement	By agreement	By agreement																			
63.5								By agreement	By agreement	By agreement																			
67		By agreement						By agreement	By agreement	By agreement																			
70		By agreement						By agreement	By agreement	By agreement																			
73		By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement																			
76.1		By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement	By agreement																			
82.5			By agreement					By agreement	By agreement	By agreement																			
88.9			By agreement					By agreement	By agreement	By agreement																			
95								By agreement	By agreement	By agreement																			
101.6								By agreement	By agreement	By agreement																			
108								By agreement	By agreement	By agreement																			
114.3								By agreement	By agreement	By agreement																			
121								By agreement	By agreement	By agreement																			
127								By agreement	By agreement	By agreement																			
133								By agreement	By agreement	By agreement																			
139.7								By agreement	By agreement	By agreement																			
141.3								By agreement	By agreement	By agreement																			
146								By agreement	By agreement	By agreement																			
152.4								By agreement	By agreement	By agreement																			
159								By agreement	By agreement	By agreement																			
165.1								By agreement	By agreement	By agreement																			
168.3								By agreement	By agreement	By agreement																			
171								By agreement	By agreement	By agreement																			
177.8								By agreement	By agreement	By agreement																			
191								By agreement	By agreement	By agreement																			
193.7								By agreement	By agreement	By agreement																			
203								By agreement	By agreement	By agreement																			
206								By agreement	By agreement	By agreement																			
210								By agreement	By agreement	By agreement																			
216								By agreement	By agreement	By agreement																			
219.1								By agreement	By agreement	By agreement																			
229								By agreement	By agreement	By agreement																			
241								By agreement	By agreement	By agreement																			
244.5								By agreement	By agreement	By agreement																			
254								By agreement	By agreement	By agreement																			
257								By agreement	By agreement	By agreement																			
267								By agreement	By agreement	By agreement																			
273								By agreement	By agreement	By agreement																			
279								By agreement	By agreement	By agreement																			
292								By agreement	By agreement	By agreement																			
298.5								By agreement	By agreement	By agreement																			
305								By agreement	By agreement	By agreement																			
318								By agreement	By agreement	By agreement																			
323.9								By agreement	By agreement	By agreement																			
330								By agreement	By agreement	By agreement																			
343								By agreement	By agreement	By agreement																			
355.6								By agreement	By agreement	By agreement																			
368								By agreement	By agreement	By agreement																			
377								By agreement	By agreement	By agreement																			
381								By agreement	By agreement	By agreement																			
394								By agreement	By agreement	By agreement																			
406.4								By agreement	By agreement	By agreement																			
419								By agreement	By agreement	By agreement																			
426								By agreement	By agreement	By agreement																			

■ – Can produce     
 ■ – By agreement     
 ■ – For production of these dimensions we have to prepare rolling tools. While placing the orders you have to clarify terms for preparing of needed equipment. Min order - 200tn per OD





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