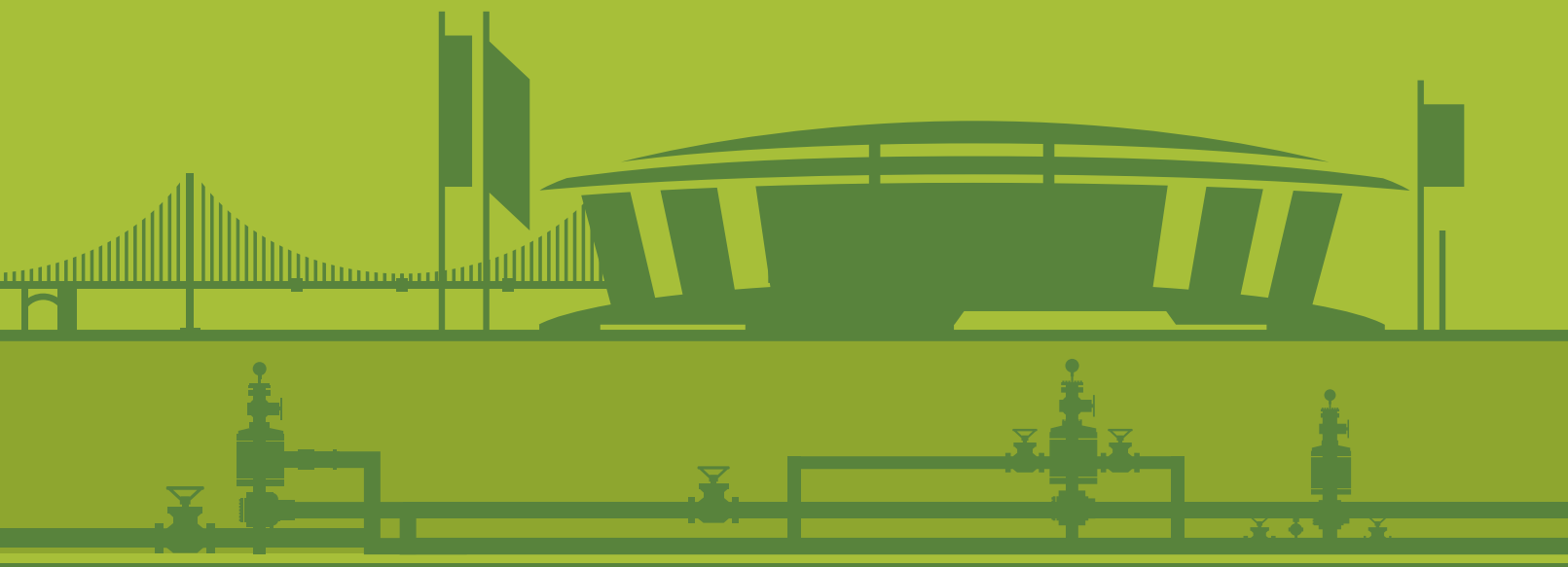
INTERPIPE

PIPE SOLUTIONS FOR INDUSTRIAL PROJECTS. FOCUS ON EUROPEAN MARKET

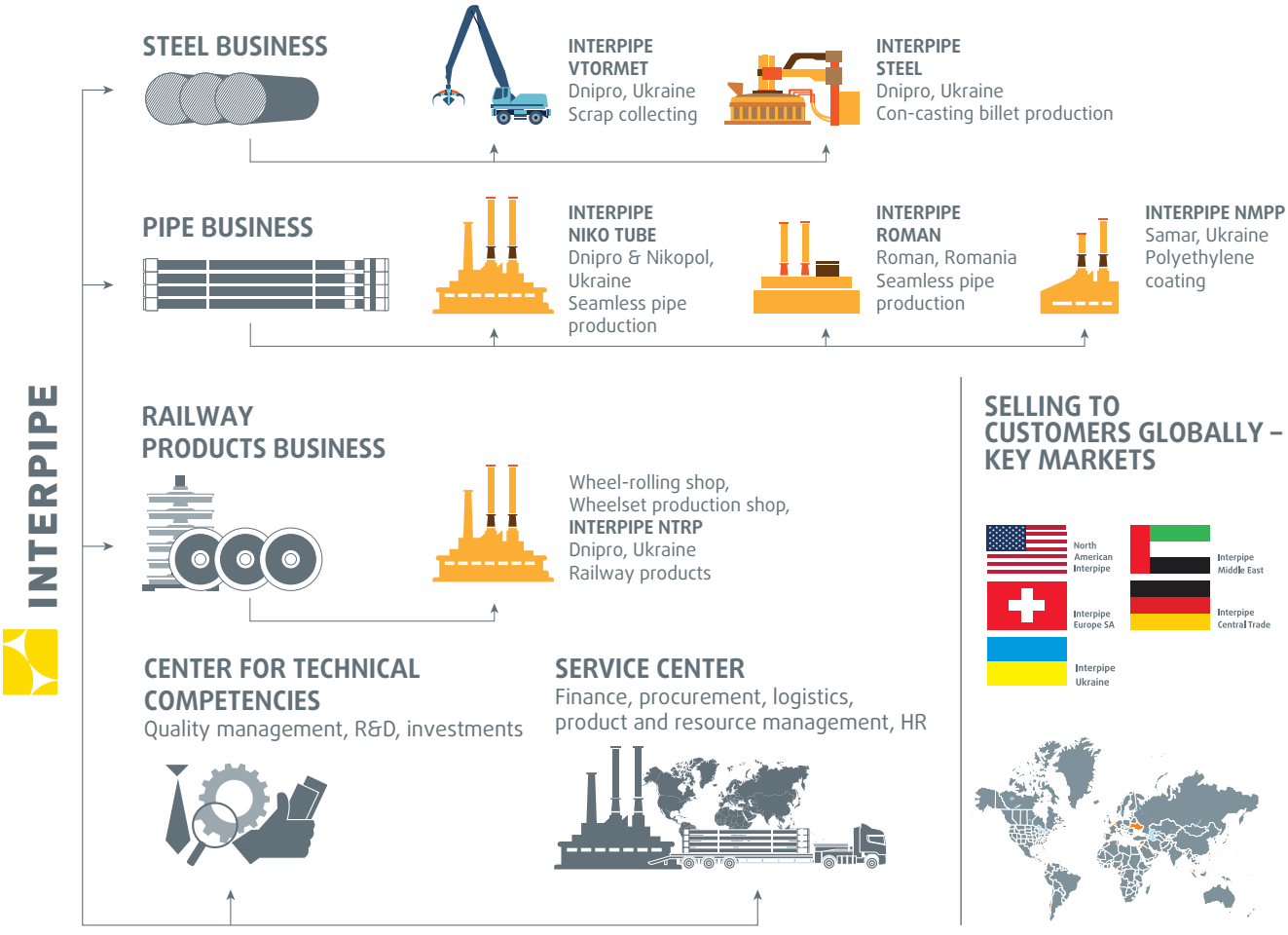


INTERPIPE — GLOBAL STEEL PIPE PRODUCER

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 60 countries in the world through a network of sales offices in Ukraine, Europe, the USA and the Gulf.

VERTICALLY INTEGRATED BUSINESS STRUCTURE

Interpipe structure includes production facilities located in Dnipro region, one of the major industrial centers of Ukraine. The company continues to invest heavily in the development and modernization of its mills.
Interpipe has 3 business directions – Steel, Pipe, and Railway Products. The company controls product quality at every stage: from manufacturing of raw materials to delivery of final products to customers.



FAVOURABLE LOCATION AND COMPACT LAYOUT OF PRODUCTION ASSETS

Interpipe's mills are well connected to key markets in the Asia, MENA and Europe. Interpipe Europe cooperates with various partners in the region to provide quick and effective solutions to customer's needs.

INTERPIPE PROVIDES BROAD PRODUCT PORTFOLIO OF STEEL PIPES

Interpipe 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 mill and up to nondestructive testing of pipes and shipping to customers.

Interpipe quality is confirmed by:

API 5L	EN 10210-1,2	ISO 9001
ISO 3183	EN 10216-1,2,3,4	ISO 14001
ASTM A53	EN 10297-1	ISO 45001
ASTM A106	EN 10255	CE
ASTM A333	EN 10225-3	PED
ASTM A210	DIN 17175	DNV
ASTM A192	DIN 1629	Lloyd's Register

TOLERANCES

	Seamless steel pipes for pressure purposes EN 10216-1/2/3/4	Construction pipes EN 10210-1/2/ EN10225-3	Seamless steel pipes for mechanical and general engineering purposes EN 10297-1	Seamless pipes DIN 1629
Outside diameter tolerance	+/-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)
Wall thickness tolerance	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%
Straightness	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
Out-of-roundness	Out-of-roundness is defined in diameter tolerances. Eccentricity is defined in wall thickness tolerance	2% according to equation $O(\%)=OD_{max}- OD_{min}/OD*100$	Out-of-roundness is defined in diameter tolerances. Eccentricity is defined in wall thickness tolerance	Out-of-roundness is defined in diameter tolerances
Type name	P – Pressure	S – Structural	E – Engineering	-

Seamless steel pipes of heat-resistant steels DIN 17175	Seamless Carbon Steel Pipe ASTM A106/A333	Steel Pipes Seamless ASTM A53	Line pipe API 5L/ISO3183	Non-alloy steel pipes suitable for welding and threading EN 10255
OD<=100mm ±0,75% min ±0,5mm 100<=OD<=320mm ±0,90% OD>320mm ±1,0%	1⁄8 to 11⁄2" +0.4/-0.4mm Over 11⁄2 to 4" +0.8/-0.8mm Over 4 to 8" +1.6/-0.8mm Over 8 to 18" +2.4/-0.8mm Over 18 to 26" +3.2/-0.8mm	OD<11⁄2" +/-0,4mm OD>2" +/-1%	OD<60,3 -0,8/+0,4mm 60,3<=OD<=168,3 ±0,0075D, end -0,4/+1,6mm 168,3<OD<=610 ±0,0075D, end ±0,005D -0,4/+1,6mm max±1,6mm	1⁄8 to 11⁄2" +0.4/-0.4mm Over 11⁄2 to 4" +0.8/-0.8mm Over 4 to 8" +1.6/-0.8mm Over 8 to 18" +2.4/-0.8mm Over 18 to 26" +3.2/-0.8mm
OD<=130mm from +/- 9% to +15/-10% 100<=OD<=320mm from ±10% to +17,5/-12,5% 320<=OD<=660mm from +12,5%/-19% to +22,5/-12,5%	-12,5%, the positive tolerance is limited by the tolerance of mass	-12,5%, the positive tolerance is limited by the tolerance of mass	+0,6/-0,5mm for WT<=4 +0,15t/-0,125t for 4<WT<=25 +3,7mm or 0,1t/ -3,0mm or ,01t for WT>=25	+/-12,5%
Visually straight	Reasonably straight	Reasonably straight	<=0,2% and <=3,2mm/1,5 m at each end	For D≥33,7 mm: 0,002L for whole pipe length
Out-of-roundness is defined in diameter tolerances	-	-	1,2mm for OD<60,3, end 0,9mm for D/t<=75, by agreement for D/t>=75 0,02D for 60,3<=OD<=168,3, end 0,015D for D/t<=75, by agreement for D/t>=75	Out-of-roundness is defined in diameter tolerances
-	-	-		-

MECHANICAL PROPERTIES

Steel grade	Standard	Steel number	Yield strength (ReH) minimum for wall thickness, T mm MPa (N/mm²)				Tensile strength (Rm) minimum for wall thickness, mm MPa (N/mm²)			Elongation min (A) * %				Impact properties		
										l			t	Min.average absorbed energy		Tem-pera-ture
														l	t	
			T≤16	16<T≤40	40<T≤65	65<T≤80	T≤16	16<T≤40	40<T≤65	T≤16	T≤40	40<T≤63		J	J	°C
S195T	EN 10255	1.0026	195				320-520			20			-	-		
P195TR1	EN 10216 -1	1.0107	195	185	175	-	320-440			27			25	-		
P195TR2	EN 10216 -1	1.0108	195	185	175	-	320-440			27			25	40	28	0
P195GH	EN 10216 -2	1.0345	195	-	-	-	320-440			27			25	40	27	20 or 0 or -10
P235TR1	EN 10216-1	1.0254	235	225	215	-	360-500			25			23	-		
P235TR2	EN 10216-1	1.0255	235	225	215	-	360-500			25			23	40	28	0
P235GH	EN 10216-2	1.0345	235	225	215	-	360-500			25			23	40	27	0 or -10
P265TR1	EN 10216-1	1.0258	265	255	245	-	410-570			21			19	-		
P265TR2	EN 10216-1	1.0259	265	255	245	-	410-570			21			19	40	28	0
P265GH	EN 10216-2	1.0425	265	255	245	-	410-570			23			21	40	27	0 or -10
16Mo3	EN 10216-2	1.5415	280	270	260	-	450-600			22			20	40	27	20
P265NL	EN 10216-4	1.0453	265				410-570			24			22	40	27	-40
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
P355N	EN 10216-3	1.0545	355	345	335	315	490-550	490-630		22			20	40	27	-20
P355NH	EN 10216-3	1.0539	355	345	335	315	490-550	490-630		22			20	40	27	-20
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	-		
E275K2	EN 10297-1	1.0456	275	265	255	245	410	410	410	22			20	40	27	-20
E355	EN 10297-1	1.0580	355	345	335	315	490	490	490	20			18	-		
E355K2	EN 10297-1	1.0920	355	345	335	315	490	490	470	20			18	40	27	-20
E590K2	EN 10297-1	1.0544	590	540	480	455	700	650	570	16			14	40	27	-20
E460K2	EN 10297-1	1.8891	450	440	430	410	550	550	550	19			17	40	27	-20
E470	EN 10297-1	1.0536	470	430	-		850	600	-	17			15	-		
C22E+N	EN 10297-1	1.1151	240	210	210		430	410		24	25	25	22	-		
C45E+N	EN 10297-1	1.1191	340	305	305		620	580		14	16	16	12	-		
S235JRH	EN 10210-1	1.0039	235	225	215	215	360-610	360-610		28		25	-	27		20
S275J0H	EN 10210-1	1.0419	275	265	255	245	430-580	410-560		23		22	-	27		0

Steel grade	Standard	Steel number	Yield strength (ReH) minimum for wall thickness, T mm MPa (N/mm²)				Tensile strength (Rm) minimum for wall thickness, mm MPa (N/mm²)			Elongation min (A) * %				Impact properties		
										l			t	Min.average absorbed energy		Tem-pera-ture
														l	t	
			T≤16	16<T≤40	40<T≤65	65<T≤80	T≤16	16<T≤40	40<T≤65	T≤16	T≤40	40<T≤63		J	J	°C
S275J2H	EN 10210-1	1.0138	275	265	255	245	430-580	410-580		23		22	-	27		-20
S355JOH	EN 10210-1	1.0547	355	345	335	325	510-680	470-630		22		21	-	27		0
S355J2H	EN 10210-1	1.0578	355	345	335	325	510-680	470-630		22		21	-	27		-20
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
S355NLH	EN 10210-1	1.0549	355	345	335	-	470-630			22			20	27		-50
S460NH	EN 10210-1	1.8953	460	440	430	-	540-720			17			15	40		-20
S460NLH	EN 10210-1	1.8956	460	440	430	-	540-720			17			15	27		-50
S355NHHO	EN 10225-3	1.8814	355	354	345	335	420-620		440-610	22			-	50		-20
S355NLHHO	EN 10225-3	1.1182	355	345	345	335	420-620		440-610	22			-	50		-40
BNE or L245NE	ISO3183	1.0457	245-440			-	415-655			22			-	27		0
X42NE or L290NE	ISO3183	1.0484	290-440			-	415-655			21			-	27		0
X52NE or L360NE	ISO3183	1.0582	360-510			-	460-760			20			-	27		0
X52QE or L360QE	ISO3183	1.8948	360-510			-	460-760			20			-	27		0
X60QE or L415QE	ISO3183	1.8972	415-564			-	520-760			18			-	27		0
X65QE or L450QE	ISO3183	1.8952	450-570			-	535-760			18			-	27		0
Gr. A	ASTM A106/ ASME SA106	-	205			-	330			35			-	-		
Gr. B	ASTM A106/ ASME SA106	-	240			-	415			30						
Gr. C	ASTM A106/ ASME SA106	-	275			-	485			30						
Gr. A	ASTM A53 / ASME SA53	-	205			-	330			According to ASTM			-	-		
Gr. B	ASTM A53 / ASME SA53	-	240			-	415			According to ASTM			-	-		
Gr.6	ASTM A333 / ASME SA333	-	240			-	415			According to ASTM			-	-		
Gr. C-steel (10)	ASTM A192	-	180			-	325			35			-	-		
Gr. A-1	ASTM A210	-	255			-	415			According to ASTM			-	-		
Gr. C	ASTM A210	-	275			-	485			According to ASTM			-	-		
St 35.8/I	DIN17175	1.0305	235	225	215	-	360-480			25			23	34		-
St 37.0	DIN 1629	1.0254	235	225	215	-	360-480			25			23	-		
St 44.0	DIN 1629	1.0256	275	265	255	-	420-550			21			19	-		
St 52.0	DIN 1629	1.0421	355	345	335	-	500-650			21			18	-		

CHEMICAL COMPOSITION (cast analysis)

Type name	Standard	C		Si		Mn		P	S	Al	Cr		Cu	Mo		Nb	Nl	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.	Min.	Max.	Max.	Max.	≤16	>16≥40	>40≥65
S195T	EN 10255	-	0,20	-	-	-	1,40	0,035	0,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P195TR1	EN 10216-1	-	0.13	-	0.35	-	0.70	0.025	0.015	-	0.30	0.30	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	-	-
P195TR2	EN 10216-1	-	0.13	-	0.35	-	0.70	0.025	0.01	0.02	0.30	0.30	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	-	-
P195GH	EN 10216-2	-	0.13	-	0.35	-	0.70	0.025	0.010	0.02	0.30	0.30	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	-	-
P235TR1	EN 10216-1	-	0.16	-	0.35	-	1.20	0.025	0.020	-	0.30	0.30	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	-	-
P235TR2	EN 10216-1	-	0.16	-	0.35	-	1.20	0.025	0.015	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	0.010	0.020	0.30	0.30	0.08	0.020	0.30	0.04	-	0.02	0.70	-	-	-	-	-	-
P265TR1	EN 10216-1	-	0.20	-	0.40	-	1.40	0.025	0.020	-	0.30	0.30	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	-	-
P265TR2	EN 10216-1	-	0.20	-	0.40	-	1.40	0.025	0.015	0.02	0.30	0.30	0.08	0.010	0.30	0.04	-	0.02	0.70	-	-	-	-	-	-
P265GH	EN 10216-2	-	0.20	-	0.40	-	1.40	0.025	0.010	0.02	0.30	0.30	0.08	0.020	0.30	0.04	-	0.02	0.70	-	-	-	-	-	-
16Mo3	EN 10216-2	0.12	0.20	-	0.35	0.40	0.90	0.025	0.010	0.040	0.30	0.30	0.25-0.35	-	0.30	-	-	-	-	-	-	-	-	-	-
P265NL	EN 10216-4	-	0.20	-	0.40	0.60	1.40	0.025	0.010	0.02	0.30	0.30	0.08	0.010	0.30	0.04	-	0.02	-	-	-	-	-	-	-
P275NL1	EN 10216-3	-	0.16	-	0.40	0.80	1.50	0.025	0.015	0.02	0.30	0.30	0.08	0.05	0.50	0.03	-	0.05	-	0.012	-	-	-	-	-
P275NL2	EN 10216-3	-	0.16	-	0.40	0.80	1.50	0.02	0.01	0.02	0.30	0.30	0.08	0.05	0.50	0.03	-	0.05	-	0.012	-	-	-		
P355N	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	-	-	-	-	-	-
P355NH	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	-	-	-	-	-	-
P355NL1	EN 10216-3	-	0.16	-	0.50	1.10	1.70	0.025	0.015	0.02	0.30	0.30	0.08	0.05	0.50	0.03	-	0.1	-	0.012	-	-	-	-	-
P355NL2	EN 10216-3	-	0.18	-	0.50	1.10	1.70	0.02	0.01	0.02	0.30	0.30	0.08	0.05	0.50	0.03	-	0.1	-	0.012	-	-	-	-	-
E235	EN 10297-1	-	0.17		0.35	-	1.20	0.03	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	0.41
E275	EN 10297-1	-	0.21	-	0.35	-	1.40	0.03	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43	0.45
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	-	-			0.43	0.45
E355	EN 10297-1	-	0.22	-	0.55	-	1.60	0.03	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.47	0.5
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	-	-	-	0.47	0.5
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	-	-	-	0.40	
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	-	-	-	0.52	
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	-	-	-	0.55	
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	-	-

Type name	Standard	C		Si		Mn		P	S	Al	Cr		Cu	Mo		Nb	Nl	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.	Min.	Max.	Max.	Max.	≤16	>16≥40	>40≥65
S355J0H	EN 10210-1	-	0.22	-	0.55	-	1.60	0.035	0.035	-	-	-	-	-	-	-	-	-	-	0.009	0.45	0.47	0.5	-	-
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	-	-	-
S355NH	EN 10210-1	-	0.20	-	0.50	0.90	1.65	0.035	0.03	0.02	0.30	0.35	0.10	0.05	0.50	0.03	-	0.12	-	0.02	0.43	0.45	0.45	-	-
S355NLH	EN 10210-1	-	0.18	-	0.50	0.90	1.65	0.030	0.025	0.02	0.30	0.35	0.10	0.05	0.50	0.03	-	0.12	-	0.02	0.43	0.45	0.45		
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	-		
S460NLH	EN 10210-1	-	0.16	0.15	0.55	1.00	1.65	0.025	0.015	0.02	0.30	0.30	0.40	0.05	0.65	0.04	-	0.10	-	0.014	0.53	0.55	-	0.43	0.45
S355NHH0	EN 10225-3	-	0.20	-	0.50	0.90	1.65	0.035	0.03	0.02	0.30	0.35	0.10	0.05	0.50	0.03	-	0.12	-	0.015	-	0.43	0.45	0.43	0.45
S355NLHH0	EN 10225-3	-	0.18	0.15	0.55	-	1.60	0.025	0.015	0.02	0.25	0.35	0.08	0.05	0.30	0.02	-	0.12	-	0.02	-	0.43	0.45		
BNE or L245NE	ISO3183	-	0.18	-	0.40	-	1.20	0.025	0.015	0.015-0.060	0.30	0.25	0.10	-	0.30	-	-	-	-	0.012	0.42				
X42NE or L290NE	ISO3183	-	0.19	-	0.40	-	1.20	0.025	0.015	0.015-0.060	0.30	0.25	0.10	0.05	0.30	0.04	-	0.06	-	0.012	0.42				
X52NE or L360NE	ISO3183	-	0.22	-	0.45	-	1.40	0.025	0.015	0.015-0.060	0.30	0.25	0.10	0.05	0.30	0.04	-	0.10	-	0.012	0.43				
X52QE or L360QE	ISO3183	-	0.18	-	0.45	-	1.50	0.025	0.015	0.015-0.060	0.30	0.25	0.10	0.05	0.30	0.04	-	0.10	-	0.012	0.43				
X60QE or L415QE	ISO3183	-	0.18	-	0.45	-	1.70	0.025	0.015	0.015-0.060	0.30	0.25	0.10	0.06	0.30	0.05	-	0.09	-	0.012	0.43				
X65QE or L450QE	ISO3183	-	0.18	-	0.45	-	1.70	0.025	0.015	0.015-0.060	0.30	0.25	0.10	0.06	0.30	0.07	-	0.10	-	0.012	0.43				
Gr. A	ASTM A106/ ASME SA106	-	0.25	0.10	-	0.27	0.93	0.035	0.035	-	0.40	0.40	0.15	-	0.40	-	-	0.08	-	-	-	-	-		
Gr. B	ASTM A106/ ASME SA106	-	0,30	0,10	-	0,29	1,06	0,035	0,035	-	0,40	0,40	0,15	-	0,40	-	-	0,08	-	-	-	-	-		
Gr. C	ASTM A106/ ASME SA106	-	0,35	0,10	-	0,29	1,06	0,035	0,035	-	0,40	0,40	0,15	-	0,40	-	-	0,08	-	-	-	-	-		
Gr. A	ASTM A53 / ASME SA53	-	0,25	-	-	-	0,95	0,06	0,046	-	0,40	0,40	0,15	-	0,40	-	-	0,08	-	-	-	-	-		
Gr. B	ASTM A53 / ASME SA53	-	0,30	-	-	-	1,20	0,05	0,045	-	0,40	0,40	0,15	-	0,40	-	-	0,08	-	-	-	-	-		
Gr.6	ASTM A333 /ASME SA333	-	0.30	0.10	-	0.29	1.06	0.025	0.025	-	0.30	0.40	0.12	0.02	0.40	-	-	0.08	-	-	-	-	-		
Gr. C-steel (10)	ASTM A192	0.06	0.18	-	0.025	0.27	0.63	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Gr. A-1	ASTM A210	-	0.27	0.10	-	-	0.93	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Gr. C	ASTM A210	-	0.35	0.10	-	0.29	1.06	0.035	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
St 35.8/I	DIN 17175	-	0.17	0.10	0.35	0.40	0.80	0.04	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
St 37.0	DIN 1629	-	0.17	-	-	-	-	0.04	0.04	-	-	-	-	-	-	-	-	-	-	0.009	-	-	-		
St 44.0	DIN 1629	-	0.21	-	-	-	-	0.04	0.04	-	-	-	-	-	-	-	-	-	-	0.009	-	-	-		
St 52.0	DIN 1629	-	0.22	-	0.55	-	1.60	0.04	0.04	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-		

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	6.3	7.1	8	8.8	10	11	12.5	14.2	16
21.3	■	■	■	■	■	■												
26.9	■	■	■	■	■	■												
31.8		■	■	■	■	■	■	■	■	■	■	■						
33.7		■	■	■	■	■	■	■	■	■	■	■						
35				■	■	■	■	■	■	■	■	■						
38		■	■	■	■	■	■	■	■	■	■	■						
40				■	■	■	■	■	■	■	■	■						
42.4		■	■	■	■	■	■	■	■	■	■	■						
44.5		■	■	■	■	■	■	■	■	■	■	■	■	■	■			
48.3		■	■	■	■	■	■	■	■	■	■	■	■	■	■			
51		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
54		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
57		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
60.3			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
63.5			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
66.5			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
70			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
76.1			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
82.5				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
85				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
88.9				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
95					■	■	■	■	■	■	■	■	■	■	■	■	■	■
101.6					■	■	■	■	■	■	■	■	■	■	■	■	■	■
108					■	■	■	■	■	■	■	■	■	■	■	■	■	■
114.3					■		■	■	■	■	■	■	■	■	■	■	■	■
121						■	■	■	■	■	■	■	■	■	■	■	■	■
127						■	■	■	■	■	■	■	■	■	■	■	■	■
133						■	■	■	■	■	■	■	■	■	■	■	■	■
139.7						■	■	■	■	■	■	■	■	■	■	■	■	■
141.3								■	■	■	■	■	■	■	■	■	■	■
146							■	■	■	■	■	■	■	■	■	■	■	■
152.4							■	■	■	■	■	■	■	■	■	■	■	■
159							■	■	■	■	■	■	■	■	■	■	■	■
165.1							■	■	■	■	■	■	■	■	■	■	■	■
168.3							■	■	■	■	■	■	■	■	■	■	■	■
177.8										■	■	■	■	■	■	■	■	■
193.7									■	■	■	■	■	■	■	■	■	■
203														■	■	■	■	■
219.1										■	■	■	■	■	■	■	■	■
229																■	■	■
235														■	■	■	■	■
244.5										■	■	■	■	■	■	■	■	■
250																		
254														■	■	■	■	■
267														■	■	■	■	■
273										■	■	■	■	■	■	■	■	■
276																		
279																		
292																		
298.5														■	■	■	■	■
305														■	■	■	■	■
311																		
323.9										■	■	■	■	■	■	■	■	■
330																		
332																		
331																		
339.7														■	■	■	■	■
343														■	■	■	■	■
355.6												■	■	■	■	■	■	■
360																		
368														■	■	■	■	■
381														■	■	■	■	■
377														■	■	■	■	■
394																		
406.4													■	■	■	■	■	■
419														■	■	■	■	■
426														■	■	■	■	■
429																		
457																		

Size Range

D/s, mm	Wall thickness, mm																	
	17.5	20	22.2	25	28	30	32	35	36	40	45	50	55	60	65	70	75	80
21.3																		
26.9																		
31.8																		
33.7																		
35																		
38																		
40																		
42.4																		
44.5																		
48.3																		
51																		
54																		
57																		
60.3																		
63.5																		
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70																		
73																		
76.1																		
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360																		
368																		
381																		
377																		
394																		
406.4																		
419																		
426																		
429																		
457																		

POLYETHYLENE COATED PIPES

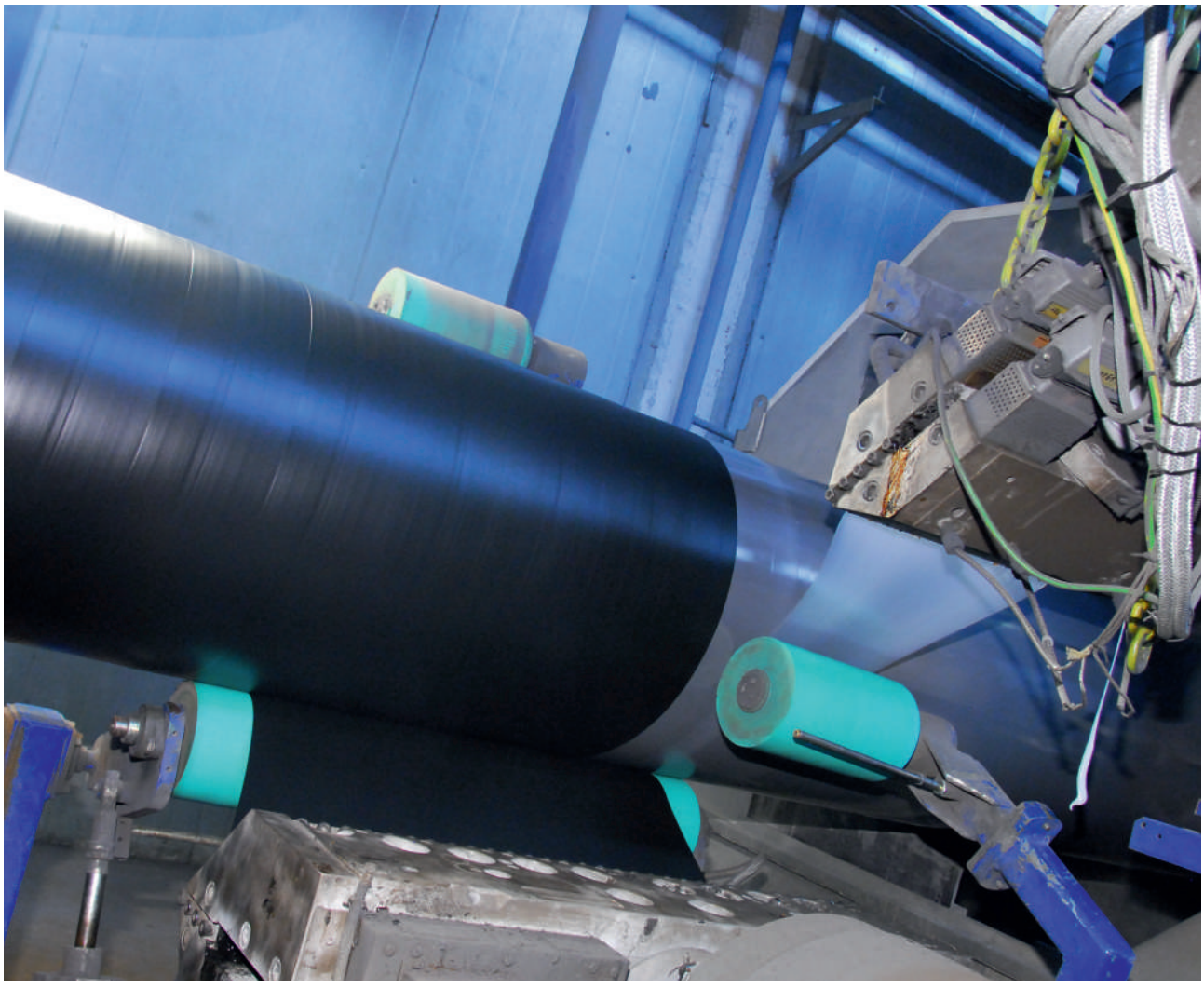
DIN 30670-1
POLYETHYLENE COATING ON STEEL PIPES

Dimensions range:
Pipe OD 88,9 - 530 mm and WT ≥ 3 mm.
The maximum wall thickness of the pipe to be coated – 15mm
The maximum weight of the pipe to be coated – 1,8tn
Length 7,5 - 14 meters

Coating thickness:

Outside diameter of the pipes, mm	Coating thickness, at least, mm	
	Normal (n)	Special (v)
88,9 - 114.3mm	1,8	2,5
> 114.3mm up to ≤ 273mm	2,0	2,7
> 273mm up to ≤ 508mm	2,2	2,9
> 508mm	2,5	3,2

Coating execution:
Normal performance (N) – polyethylene coating intended for use at temperature from - 20°C up to 60°C
Special performance (S) – polyethylene coating intended for use at temperature from - 40°C up to 80°C



ISO 21809-1,2
EXTERNAL COATINGS FOR BURIED OR SUBMERGED PIPELINES USED IN PIPELINE TRANSPORTATION SYSTEMS

Dimensions range:
Pipe OD 88,9 - 530 mm and WT ≥ 3 mm.
The maximum wall thickness of the pipe to be coated – 15mm
The maximum weight of the pipe to be coated – 1,8tn
Length 7,5 - 14 meters

External 3-layer coatings according to ISO 21809-1:

Pm unit weight of pipe, kg/m	Class of coating thickness, mm (a)			Class of coating thickness, mm (a) (b)		
	B1	B2	B3	C1	C2	C3
Pm ≤ 15	1,3	1,8	2,3	1,3	1,7	2,1
15 ≤ Pm ≤ 50	1,5	2,1	2,7	1,5	1,9	2,4
50 ≤ Pm ≤ 130	1,8	2,5	3,1	1,8	2,3	2,8
130 ≤ Pm ≤ 300	2,2	2,8	3,5	2,2	2,5	3,2

(a) upon request, other thicknesses can be agreed on
(b) upon request only

Coating classes:
Class B – polyethylene coating intended for use at temperature from - 40°C up to +80°C
Class C(b) – polypropylene coating intended for use at temperature from - 20°C up to 110°C

External coatings according to ISO 21809-2: Single layer fusion-bonded epoxy coatings

Coating thickness: standard 350 µm; upon customer request can be ordered minimum coating thickness in the range of 350 – 900 µm
Working temperature up to 120°C

INTERPIPE STEEL: IN-HOUSE GREEN STEEL PRODUCTION

Interpipe company needs for steel billets is 100% covered by own facilities – Interpipe Steel plant. Interpipe Steel – is an innovative EAF complex, launched in 2012 with best available technologies from Danieli.

A few years before the European Green Deal emerged, Interpipe made the largest environmental investment in the Ukrainian industry, investing $1 billion into the construction of the innovative electric steel-making complex Interpipe Steel. It enabled Interpipe to achieve one of the lowest greenhouse gas emission intensity in the global steel industry – lower than 250 kg per ton of steel billets – that reflects low carbon nature of Interpipe production.

LOW CARBON FOOTPRINT

<**110 kg/ton** of steel (Scope 1)

<**230 kg/ton** of steel (Scope 2)

RECYCLING DEVELOPMENT

96% of steel produced from scrap

CLEAN ENERGY USAGE

Over 65% of energy comes from environmentally sustainable sources

INNOVATIVE DANIELI TECHNOLOGIES ON INTERPIPE STEEL ENABLES TO PRODUCE 1,320,000 TONS OF STEEL BILLET ANNUALY

Electric arc furnace, 160 tons	Twin tank vacuum-degasser
Twin position ladle furnace	Two continuous casting machines

INTERPIPE STEEL IS THE LARGEST "GREEN" INVESTMENT INTO UKRAINIAN STEEL INDUSTRY DURING THE LAST 30 YEARS

State-of-the-art gas collection and purification system allows the efficient collection of gas and dust, generated during the steel-melting process
Completely closed circulating water supply system of the mill, without any industrial wastewater discharge

INTERPIPE STEEL ENSURES 100% NEEDS IN STEEL BILLETS FOR PIPE PRODUCTS MANUFACTURING. THE MILL HAS DEVELOPED WIDE PRODUCT PORTFOLIO OF PIPE STEEL GRADES FOR OUR CUSTOMERS.

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