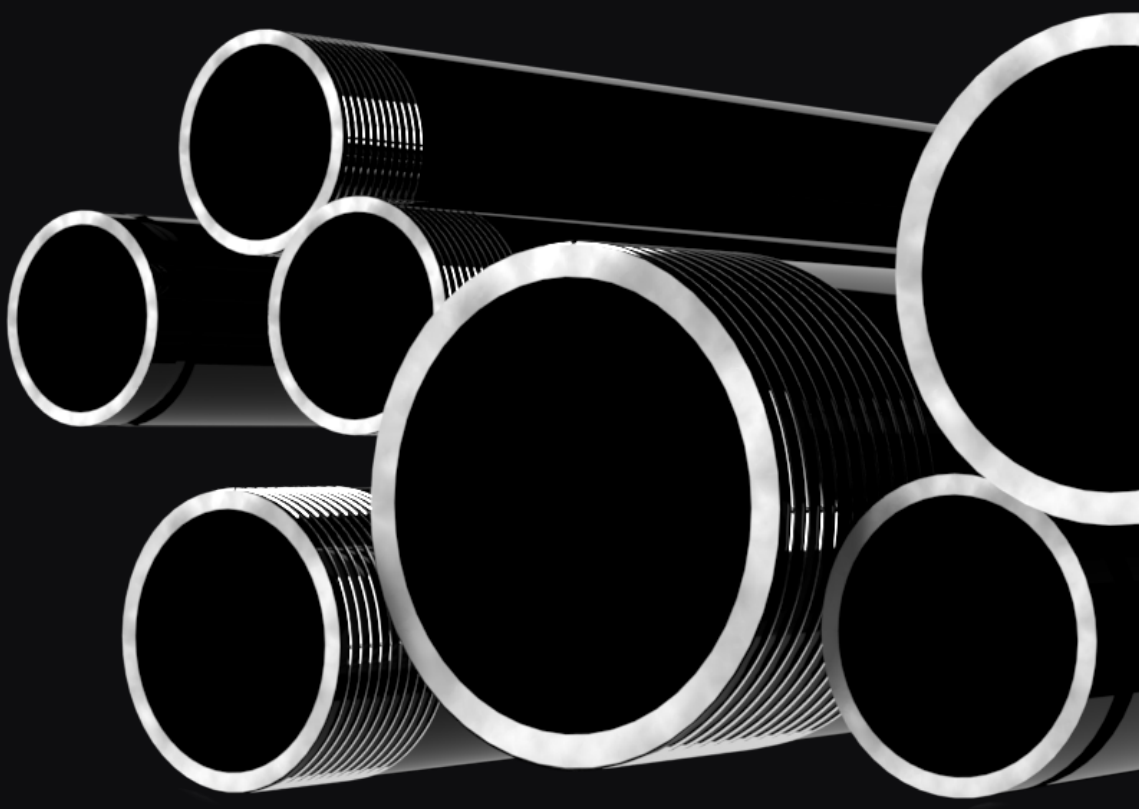
NEXUM

THE MOST SOPHISTICATED
PIPE WE'VE EVER ENGINEERED.

UTP GROUP



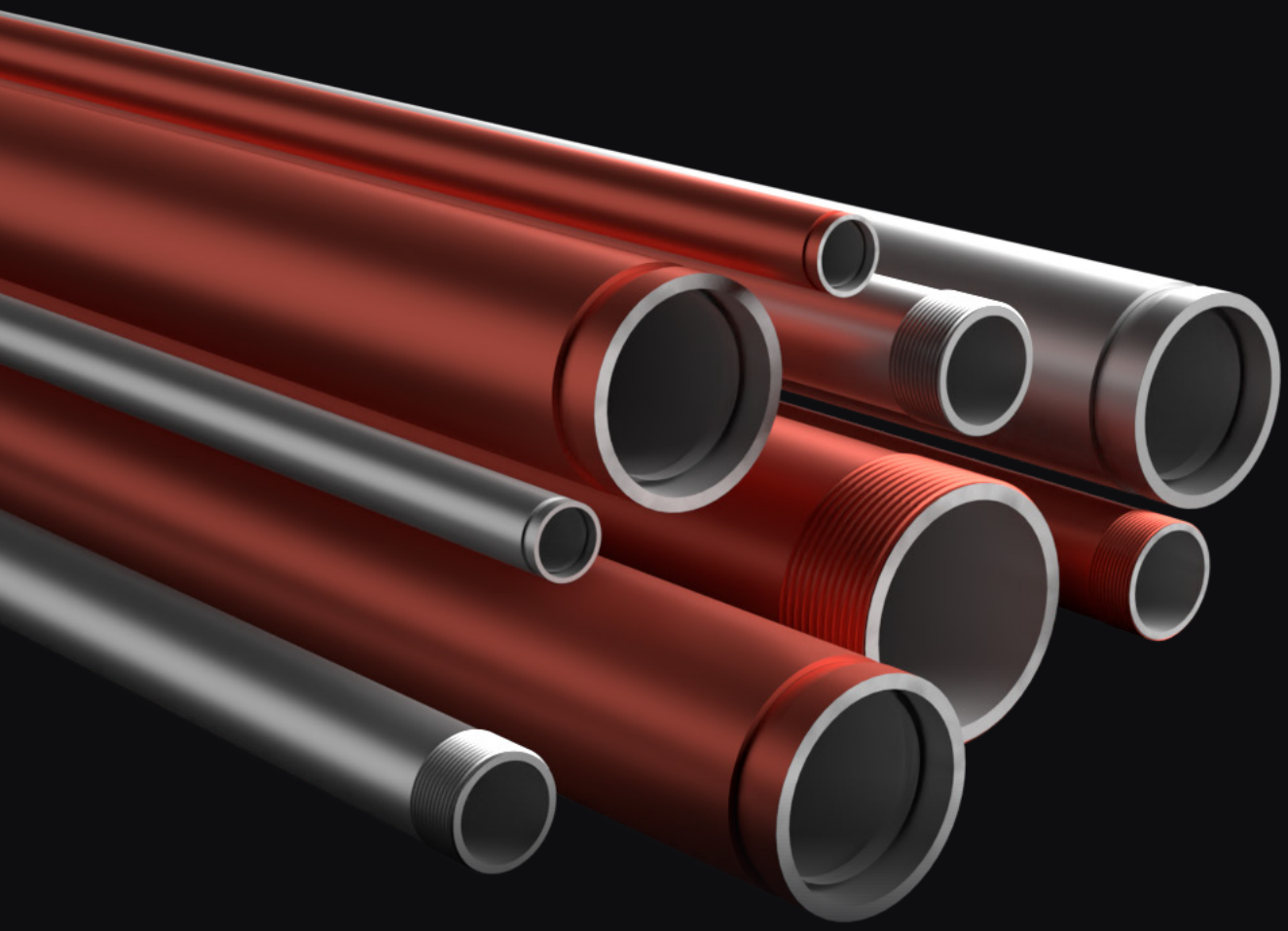
THERMALX

totalwall

LOOP360

HYPER-FIT PRO

NEXUM
CONNECT & FLOW



NEXUM

Manufactured using advanced technology for the ultimate solution in gas, water tube and pressure equipment. Highly engineered welded pipe for the end user.

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FEATURES&BENEFITS

THERMAL X

THERMAL X
Elevated temperature properties with improved or added corrosion resistance, toughness and endurance. Suitable for temperature ranges -20℃ to +300℃

total wall

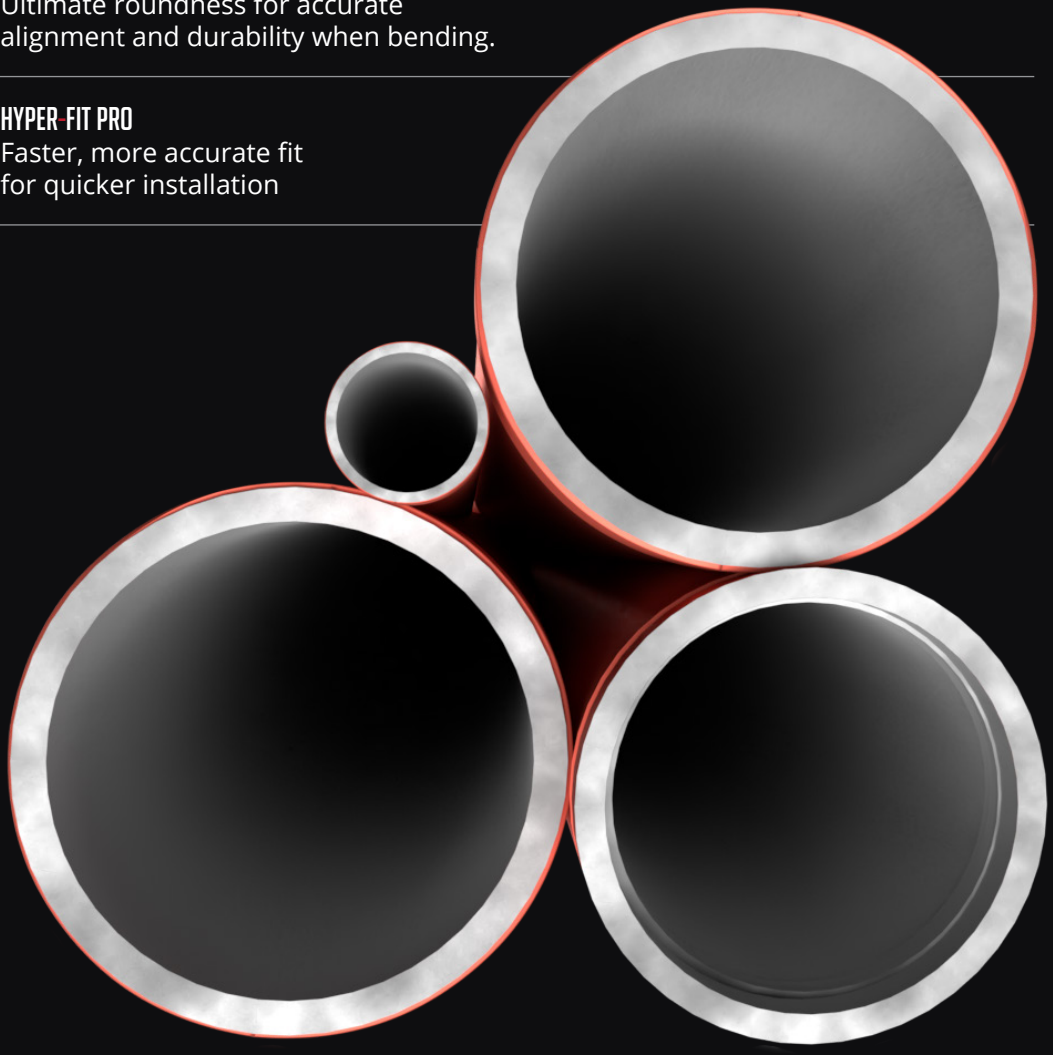
TOTAL WALL RELIABILITY
Precision wall thickness for consistent end matching. Size range from ½ inch to 6 inch (15mm – 150mm NB)

LOOP360

LOOP360 PRECISION
Ultimate roundness for accurate alignment and durability when bending.

HYPER-FIT PRO

HYPER-FIT PRO
Faster, more accurate fit for quicker installation



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Technical Data Sheet for Hot Finish Product

BS EN 10217-2, GH, ERW (HFW) Carbon Steel Pipe

Hot finish Product (Full body Normalizing)

1.0	Size						
TUBE	SIZE	SPECIFIED OUTSIDE DIAMETER		WALL THICKNESS	Weight of Tube		TEST PRESSURE
	INCH	NB	MM	NOM	BLACK	S/S	BAR
MEDIUM	1/2"	15	21.3	2.6	1.21	1.22	70
	3/4"	20	26.9	2.6	1.56	1.57	70
	1"	25	33.7	3.2	2.41	2.43	70
	1 1/4"	32	42.4	3.2	3.10	3.13	70
	1 1/2"	40	48.3	3.2	3.56	3.6	70
	2"	50	60.3	3.6	5.03	5.1	70
	2 1/2"	65	76.1	3.6	6.42	6.54	70
	3"	80	88.9	4.0	8.36	8.53	70
	4"	100	114.3	4.5	12.2	12.5	70
	5"	125	139.7	5.0	16.6	17.1	70
	6"	150	165.1	5.0	19.8	20.4	70
HEAVY	1/2"	15	21.3	3.2	1.44	1.45	70
	3/4"	20	26.9	3.2	1.87	1.88	70
	1"	25	33.7	4.0	2.93	2.95	70
	1 1/4"	32	42.4	4.0	3.79	3.82	70
	1 1/2"	40	48.3	4.0	4.37	4.41	70
	2"	50	60.3	4.5	6.19	6.26	70
	2 1/2"	65	76.1	4.5	7.93	8.05	70
	3"	80	88.9	5.0	10.3	10.5	70
	4"	100	114.3	5.4	14.5	14.8	70
	5"	125	139.7	5.4	17.9	18.4	70
	6"	150	165.1	5.4	21.3	21.9	70

Compliance - Technical / Regulations:	
Standard	Dual Certified - BS EN 10217-2 / EN 10255
Grade	P235GH TC1 / S195T or other Grade as applicable
Technical Delivery Condition	Hot Finished (Full body Normalizing)
Design Temperature	-20°C to 300°C
Temperature Classification	High Temperature (HT)
PED Compliance	YES
CE Marked, CPR Compliance (CAT 3 & 4)	YES
Surface Finish	Red Painted / Hot Dip Galvanized
End Type	Plain end / Threaded end / Roll Grooved end

Note : Our GH/ Hot-finished tubes can also be certified to BS EN 10217-1, TR2.
Abbreviations : GH - Elevated temperature, TC1 - Test Category 1

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2. CHEMICAL COMPOSITION

Steel Grade		C	Si	Mn	P	S	Cr	Mo	Ni	Al	Cu	Nb[d]	Ti[d]	V[d]	Cr+Cu+ Mo+Ni
Steel Name	Steel Number	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.	Max.	Max.	Max.
P195GH	1.0348	0,13	0,03	0,70	0,025	0,020	0,30	0,08	0,30	0,02	0,30	0,010	0,03	0,02	0,70
P235GH	1.0345	0,16	0,03	1,20	0,025	0,020	0,30	0,08	0,30	0,02	0,30	0,010	0,03	0,02	0,70
P265GH	1.0425	0,20	0,03	1,40	0,025	0,020	0,30	0,08	0,30	0,02	0,30	0,010	0,03	0,02	0,70

d - The content of these elements need not to be reported unless intentionally added to the cast.

3. MECHANICAL PROPERTIES

Steel Grade		YS minimum for T≤ 16mm	Tensile Strength	Elongation min. %		Impact Properties Minimum Avg. (J) At a temperature of °C			
Steel Name	Steel Number	Mpa	Mpa	Longitudinal	Transverse	Longitudinal			Transverse
						0	-10	-20	0
P195GH	1.0348	195	320-440	27	25	40	28	28	27
P235GH	1.0345	235	360-500	25	23	40	28	28	27
P265GH	1.0425	265	410-570	23	21	40	28	28	27

4. MINIMUM 0,2% PROOF STRENGTH ($R_{p0,2}$) AT ELEVATED TEMPERATURE

Steel Grade		$R_{p0,2}$ min. Mpa at a temperature of 0°C						
Steel Name	Steel Number	100	150	200	250	300	350	400
P195GH	1.0348	175	165	150	130	113	102	94
P235GH	1.0345	198	187	170	150	132	120	112
P265GH	1.0425	226	213	192	171	154	141	134

4. FLATTENING TEST	: The flattening test shall be carried out in accordance with EN ISO 8492. The tube section shall be flattened in a press until the distance H between the Platens reaches the value calculated by the following equation: H=((1+C) / C+(T/D))XT Where: - H is the distance between platens to be measured under load, in mm. - D is the specified outside diameter, in mm. - T is the specified wall thickness, in mm. - C is a constant, the value of which is . - 0.09 for steel grades P195GH & P235GH - 0.07 for steel grades P265GH

5. DRIFT TEST	The test shall be carried out in accordance with EN ISO 8493. The tube section shall be expanded with a 60°conical tool, until the percentage increase in outside diameter as below.				
	Steel Grade		% Increase in outside diameter for d/D[a]		
	Steel Name	Steel Number	≤ 0,8	> 0,6 ≤ 0,8	> 0,8
	P195GH	1.0348	12	15	19
	P235GH	1.0345	10	12	17
	P265GH	1.0425	8	10	15
	d= D-2T				

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TOLERANCES		
6. OUTSIDE DIAMETER.	D ≤ 219.1 = ± 1% or ± 0.5mm whichever is the greater.	
7. STRAIGHTNESS	Straightness shall not exceed 0.0015 L. Deviations from straightness over any one meter length not exceed 3mm	
8. THICKNESS	+/-10 % or ± 0,3 whichever is the greater for wall thickness ≤ 5mm +/-8% for wall thickness 5<T≤ 16mm	
9. LENGTH	6.40m and 3.20m length or other as per agreement.	
10. WELD BEAD HEIGHT	for sizes upto 3/4" - Inside 0.5 + 0.05T mm maximum and outside shall be Trimmed for sizes 1" & above - Inside & outside Bead shall be trimmed.	
11. LEAK TIGHTNESS TEST	a)	On line NDT (Eddy Current)
	b)	Hydro testing pressure shall be as per Table and holding time min. 5 Second.
12. ZINC COATING	As per EN 10240A1 / ISO 1461	
13. THREADING	For 1/2" to 3/4" - 14 TPI and from 1" to 6" - 11 TPI. (Check with standard ring and plug gauges.)	
14. END PROTECTION / IDENTIFICATION	White Colour Plastic End Cap.	
15. PACKING	Hexagonal Type (Full body wraps with red color PP cloth & End open)	
16. MILL TEST CERTIFICATE	MTC as per EN 10204 Type:3.1	
17. ADVANTAGE OVER COLD FORMED TUBES	1) Consistent Micro Structure 2) Internal stress relief helps to avoid Seam Cracking. 3) Consistency in Physical/Mechanical properties. 4) Improved Ductility. 5) Refined Grain Structure & Consistence Toughness. 6) High pressure integrity. 7) No loss of strength in further application like fabrication, heating , etc. 8) Preferred for processes like Grooving and Threading, with minimal risk of weld seam split/cracking.	
18. APPLICATION	1) In installations for the transport/distribution/storage of gas/fuel intended for the Supply of building heating/cooling systems, from the external storage reservoir or the last pressure reduction unit of the boiler/heater/cooler system(s) of the building(s) 2) Pressure equipment (Water, Gas, Fuel & Air)	

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Nexum pipes will be produced by Universal Tube & Plastic Industries, a subsidiary of the iconic global conglomerate Taurani Holdings Ltd. UTP has full CE/PED certification and a track record of engineering excellence, ensuring that all Nexum products will be manufactured to a superior standard. Once produced, they will be distributed through Brisko Metal Resources, a leading UK stockholder specialising in pipes, scaffolding and structural steel.

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