



# **ANSSEN**

***Metallurgy Group Co.,Ltd***



## ***Oxygen lance pipe***

**Service World Steel !**

### **ANSSEN oxygen lance pipe**

Oxygen Lance Pipes are carbon steel pipes used with oxygen is an invaluable tool for the primary metals industry. It is used daily in almost all ferrous and non-ferrous primary production facilities, due to user's requirements for low consumption, high purity during melting process in EAF/BOF, ANSSEN successfully developed a high quality coating at competitive cost, it has great advantage in anti-oxidization, anti-sulphurization, thermal resistant, anti-erosion and easy operation.

### **ANSSEN Main products:**

- Calorized lance pipe;
- Ceramic coated lance pipe;
- Calorized and ceramic coated lance pipe;
- Plain oxygen lance pipe;
- Thermic lance pipe







### **Our pipe serves below applications:**

- Oxygen lance pipe for EAF decarburizing,
- Oxygen lance pipe are used for opening tap holes,
- Oxygen lance pipe for cleaning ladle well blocks,
- Oxygen lance pipe are used for unclogging tundish nozzles,
- Oxygen lance pipe are used for cutting skulls
- Oxygen lance pipe are used for cleaning up spillages



## Calorized & Ceramic Coated Oxygen Lance Pipe

Types	Ceramic coated pipe	Calorized pipe	Calorized & ceramic coated pipe
Thickness of calorizing layer	Without	OD 0.15~0.25mm ID 0.15~0.25mm	OD 0.15~0.25mm ID 0.15~0.25mm
Thickness of ceramic coating	OD 0.25-0.60mm ID 0.10~0.20mm	Without	OD 0.25-0.60mm ID 0.10~0.20mm
Number of layers	3 layers	3 layers	5 layers
Pipe material	Carbon Steel Pipe (both welded & seamless available)		
Pipe diameter	1/8" ~ 4" according to client's requirement		
Connection method	Threaded or hydraulic pressed coupling		

ANSSEN Type 1	Both ends threaded with one coupling & one plastic cap.	
ANSSEN Type 2	Both ends threaded with one coupling & one plastic cap.	
ANSSEN Type 3	Both ends threaded with one coupling & one plastic cap.	
ANSSEN Type 4	No threads, no coupling	
ANSSEN Type 5	No threads, no coupling	
ANSSEN Type 6	No threads with one pressed coupling	

Oxygen lance pipe dimension range				Working Pressure	
DN	INCH	OD(mm)	LENGTH	5 Bar	10 Bar
6	1/8"	10	1000/1800/3000/6000	ca.15 Nm <sup>3</sup> /h	ca.35 Nm <sup>3</sup> /h
8	1/4"	13.5	1000/1800/3000/6000	ca.45 Nm <sup>3</sup> /h	ca.90 Nm <sup>3</sup> /h
10	3/8"	17	3000/5000/5500/6000	ca.90 Nm <sup>3</sup> /h	ca.180 Nm <sup>3</sup> /h
15	1/2"	21.5	3000/5000/5500/6000	ca.160 Nm <sup>3</sup> /h	ca.290 Nm <sup>3</sup> /h
20	3/4"	26.7	3000/5500/6000/9000	ca.360 Nm <sup>3</sup> /h	ca.700 Nm <sup>3</sup> /h
25	1"	33.4	3000/5500/6000/9000	ca.600 Nm <sup>3</sup> /h	ca.1200 Nm <sup>3</sup> /h
32	1-1/4"	42	5000/5500/6000/9000	ca.1200 Nm <sup>3</sup> /h	ca.2000 Nm <sup>3</sup> /h
40	1-1/2"	48	5000/6000/9000/12000	ca.1900 Nm <sup>3</sup> /h	ca.3300 Nm <sup>3</sup> /h
50	2"	60	5000/6000/9000/12000	ca.3100 Nm <sup>3</sup> /h	ca.5600 Nm <sup>3</sup> /h



## Plain oxygen lancing pipe

Outside diameter : 6 - 33mm

Wall thickness : 0,5 – 3,0mm

Length : Customized

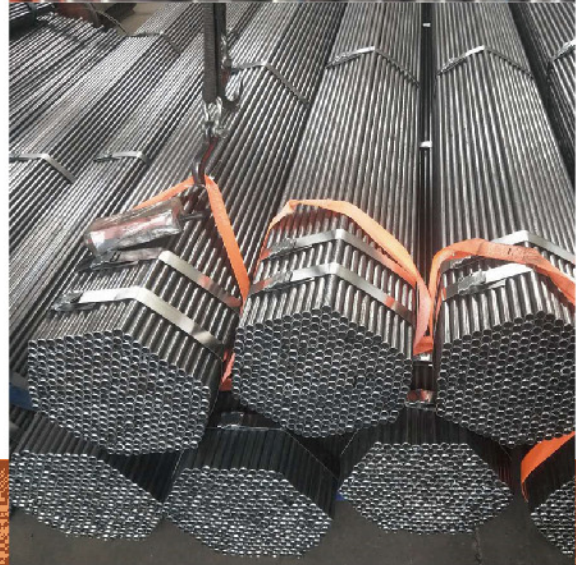
Material : Q195 / Q235

Connection : by coupling or flare to the round

Type : Welded / seamless

### Main Application:

- Opening tap holes
- Cleaning ladle well blocks
- Unclogging tundish nozzles
- Cutting skulls
- Cleaning up spillages



## Wire filled thermic lance pipe

The wire filled thermic lance pipe consists of a long steel pipe packed with alloy steel rods, sometimes mixed with aluminum rods to increase the heat output. One end of the pipe is placed in a holder and oxygen is fed through the tube.




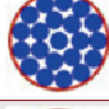

The far end of the pipe is pre-heated and lit by an oxyacetylene torch, an intense stream of burning steel is produced at the workpiece end and can be used to cut rapidly through thick materials including steel and concrete. The pipe will be consumed, so every few minutes the operator shuts off the oxygen, discards the remaining stub of a lance pipe and starts using a new one.

The thermic Lance can produce a combustion heat above 3,000 degrees C, it is used in steel-making for boring of concrete structure, removing burned sand, cutting stainless steel and nonferrous metal, cutting riser in ductile cast iron, cutting sheet or pipe pile and some other special steel, cutting pig iron mixed with slag, cutting blast furnace shell, cutting & boring furnace bottom refractory brick.

This uniquely designed lance packed with wires and inner tube has the optimum ratio of Fuel to Oxygen, resulting in a high intensity flame of concentrated thermal energy; allowing you to cut through large objects with speed and ease.





Sample PipeTL9-1 Q235B/SS400, EN10025/A53-F		OD(mm)		Length(mm)		Wires
		9.5		1000		2.8mm*6pcs
Object	WT (mm)	OP (MPa)	Cutting Time(sec)	Cutting Length(mm)	Cutting Speed(mm/sec)	Consumption of pipe(mm/sec)
SS41	20	0.3	52	232	4.5	9.6
		0.5	50	252	5.0	10.0
FC	20	0.3	39	130	3.3	12.8
		0.5	29	146	4.7	17.2
SUS304	5	0.3	48	583	12.1	10.4
	15	0.5	47	366	7.8	10.6
A2014P	5	0.3	48	1032	21.5	10.4
		0.5	43	1459	33.9	11.6
C100P	5	0.3	40	417	10.4	12.5
		0.5	38	513	13.5	13.1
Standard Size Specification						
OD(mm)	OD(mm)	Cross Section		Wires Size(mm)	Wire Qty(pcs)	Length(m)
12.5	1.25			2.8	7	1800/3000/5000
16	1.5			2.8	15	1800/3000/5000
17.3	2			2.8	16	1800/3000/5000
21.4	2			3.24	21	1800/3000/5000
26.7	2			3.24	37	1800/3000/5000



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