



**MATERIAL CERTIFICATES WITH MECHANICAL PROPERTIES AND CHEMICAL COMPOSITION
ACCORDING TO EN 10204 /3.1B PLUS BASE MATERIAL CERTIFICATES**

ZPO-1810-0001

DATE:JAN/10.2019

QUANTITY	DESCRIPTION OF GOODS			MATERIAL					RESULT		
40	Hex bushing	1" X 3/4"		19011001	316			OK			
40		2" x 1"									
20	Round cap	3"									
60	90elbow	3"									
120	Red hex nipple	1/2" X 1/4"									
80		3/4" X 1/2"									
30	Red socket	2" X 1.1/2"									
1000	Tee	1/2"									
30		1.1/2"									
10		3"									
50		Red tee	1" X 1/2"								
40	Flat union FF	3"									
HEAT NO.	CHEMICAL COMPOSITION								MECHANICAL PROPERTIES		
	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	TENSILE STRENGTH	YIELD POINT	ELONGATION
	MAX	MAX	MAX	MAX	MAX				MPa	Mpa	>30%
	0.08	1.50	1.50	0.040	0.040	9.0/12.0	18.00/21.00	2.00/3.00	>485	>205	
19011001	0.066	0.78	0.94	0.037	0.023	9.12	18.10	2.15	OK	OK	OK

WE HEREBY CERTIFY THAT:1. THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH TERMS OF THE ORDER CONTRACT.