



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

ZPO-1806-0002

DATE:NOV/11.2018

QUANTITY	DESCRIPTION OF GOODS		MATERIAL	RESULT							
400	Hex bushing	3/4x3/8	304	OK							
200		1 1/2x1 1/4									
30		2 1/2x1 1/2"									
200	Round cap	2									
40		4									
200	Cross	1/2"									
10		1 1/4"									
2000	90Elbow	1/2									
200		1 1/4"									
500		2									
1000	Hex nipple	3/8"									
2000		3/4"									
3000		1									
1500		1 1/4									
60		2 1/2"									
20		4									
20	Square plug	4"									
100	Red socket	1/2x1/4									
100		1/2x3/8									
60		1 1/2x1 1/4"									
100		*2x1									
60		2x1 1/2"									
40		2 1/2x2									
60		3x2									
60	Red Tee	1/2x1/4									
100		3/4*1/2"									
200		2x1									
1000	Union Flat F/F	1"									
200	Hose nipple	1 1/2"									
200		2"									
60		4"									
100	Red Hex Nipple	2x1 1/2									
30		3*2 1/2"									
100	Street elbow	3/4"									
CHEMICAL COMPOSITION				MECHANICAL PROPERTIES							
HEAT NO.	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	TENSILE	YIELD	ELONGATION
									STRENGTH	POINT	
	MAX	MAX	MAX	MAX	MAX				MPa	Mpa	>30%
	0.08	1.00	2.00	0.045	0.030	8.0/11.0	18.00/20.00		>485	>205	
18110301	0.062	0.660	0.102	0.030	0.011	8.16	18.06		OK	OK	OK
18110302	0.036	0.57	1.04	0.037	0.013	8.06	18.10		OK	OK	OK
18110303	0.040	0.53	1.08	0.037	0.015	8.07	18.14		OK	OK	OK
18110304	0.058	0.770	0.961	0.029	0.021	8.10	18.10		OK	OK	OK
18110305	0.062	0.880	0.102	0.028	0.019	8.12	18.06		OK	OK	OK