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SUPERIOR SUPPLY & STEEL
 318 CITIES SERVICE HWY
 SULPHUR, LA 70663-6406
 Attn: Zuri Vargus

Description											Heat Number				Steel Producer			
C	Mh	P	S	Si	Cu	Ni	Cr	Mo	Cb*	V	Ten	Yield	Elong	ROA	BHN	CE	RevYr	
12" Std LR 45° Elbow											D10220				V & M STAR			
0.2	1.03	0.01	0.003	0.26	0.19	0.07	0.1	0.02	0.001	0.021	85000	39900	31	N/A	162	0.417	11	
NOTES: Hot Formed																		
12" Std LR 45° Elbow											D10218				V & M STAR			
0.2	1.06	0.012	0.005	0.26	0.19	0.07	0.13	0.02	0.001	0.021	82200	39900	35	N/A	172	0.428	11	
NOTES: Hot Formed																		
2" Std Straight Tee											12245				SUMITOMO			
0.11	1.27	0.008	0.003	0.21	0.01	0.02	0.1	0.01	0	0	66500	39900	26.3	N/A	140	0.346	10	
NOTES: Heat Treat: Stress Relieved																		
2" Std Straight Tee											J7L8511				SUMITOMO			
0.19	0.63	0.019	0.008	0.2	0.01	0.02	0.06	0.01	0	0	70053	39900	58	N/A	137	0.311	07	
NOTES: Heat Treat: Normalized																		
3" Std Straight Tee											08184				KOPPEL			
0.11	0.82	0.007	0.007	0.22	0.24	0.15	0.18	0.04	0.001	0.003	60700	39900	33	N/A	131	0.317	06A	
NOTES: Heat Treat: Stress Relieved																		
4" Std Straight Tee											13009				SUMITOMO			
0.1	1.27	0.012	0.003	0.27	0.01	0.02	0.11	0.01	0	0	65600	39900	35.3	N/A	141	0.338	10	
NOTES: Heat Treat: Stress Relieved																		
4" Std Straight Tee											713321				JFE STEEL CORP.			
0.21	0.48	0.011	0.002	0.19	0.02	0.02	0.07	0.01	0.001	0.001	72800	39900	43	N/A	147	0.309	06A	
NOTES: Heat Treat: Normalized																		

All fittings meet the requirements of ASTM-A-234 WPB, (and SA-234) and are seamless unless noted.

Starting Material Seamless Pipe for elbows, tees and reducers; Plate for caps and welded fittings.

ISO 9001:2008 CERTIFIED MANUFACTURER

All flanges and fittings meet NACE MRO-175/ISO 15156 - Latest Revision
 All flanges and fittings meet NACE MRO-103 - Latest Revision

* No longer required under the current standards

Mark Torres - MTR Coordinator

January 27, 2015

Quality Assurance Department
 Test Results herein are correct as contained in
 test records retained by the company
 in accordance with EN 10 204 Para 3.1
 in accordance with PED 97/23/EC, 7/2