

NATIONAL DISTILLERS  
POLYETHYLENE PROCESS

NATIONAL REACTOR D-201

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DATE 11/15/71

MATERIAL SPECIFICATION SHEET

MATERIAL: AISI 4340

SPECIFICATION NO: 7R-115

(Revised 3/18/70)

CHEMICAL ANALYSIS

C	Mn	Ni	Cr	Mo	Si	P	S
0.38 0.43	0.60 0.80	1.65 2.00	0.70 0.90	0.20 0.30	0.20 0.35	0.035 Max.	0.04 Max.

MECHANICAL PROPERTIES

Ultimate Tensile Strength, long:	140,000 psi, Min.	
Min. Yield Strength (0.2% offset):	130,000 psi, Min.	
	<u>Long.</u>	<u>Tang.</u>
Elongation:	18%	15%
Reduction of Area:	55%	50%
Hardness:	293 Brinell, Nominal	
Charpy impact:	40 ft. lbs. @ room temp.	

REMARKS:

REQ. NO. 1053-11-1-A

FWC 1053

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