

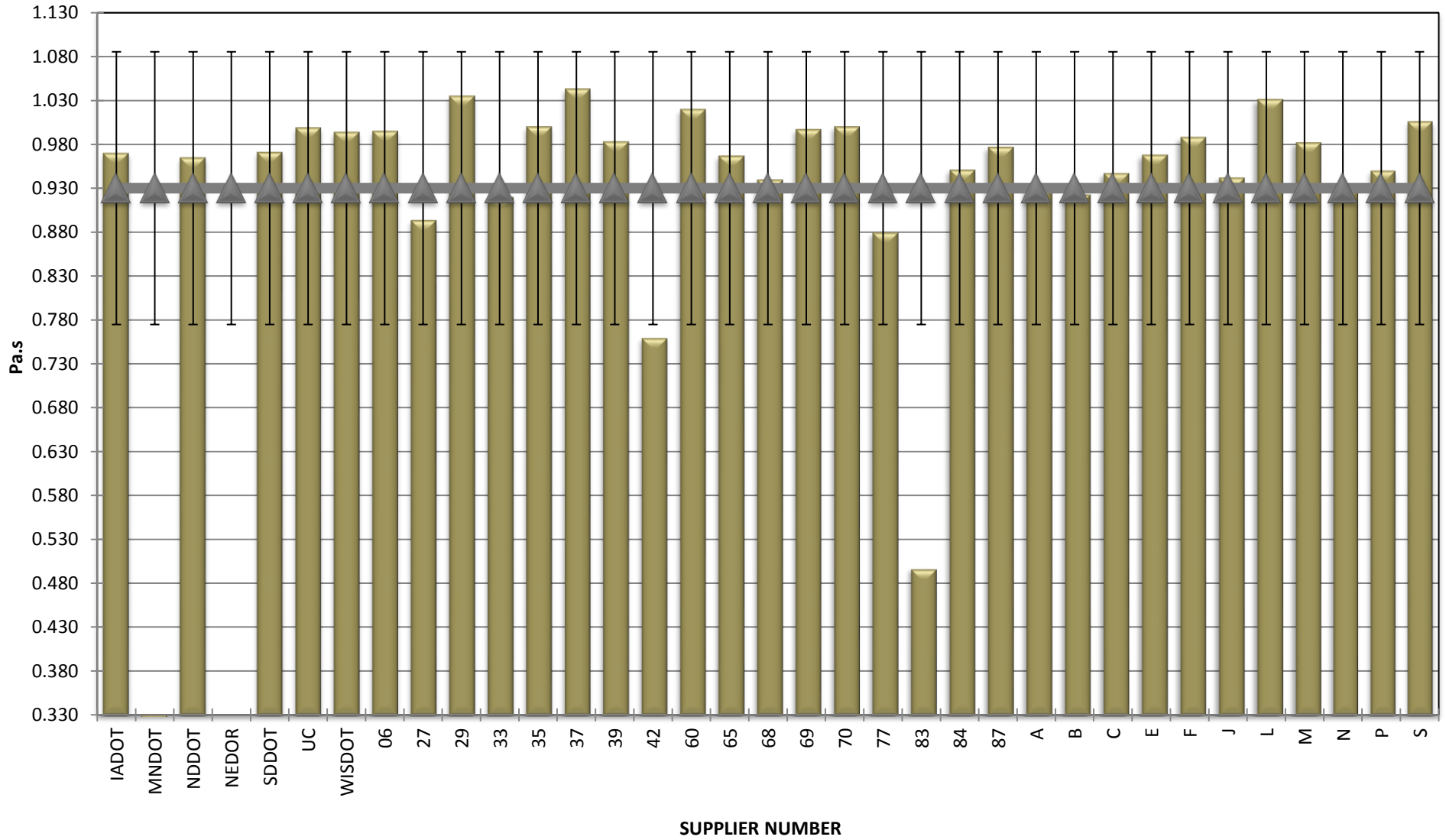


**COMBINED STATE BINDER GROUP ROUND ROBIN SUMMARY B 2016-3**  
64-34

	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value	Jnr @ 100 Pa	% Rec. 100 Pa	Jnr @ 3200 Pa	% Rec. @ 3200 Pa
<b>A</b>											
19	0.936	1.86	4.13	1,323	0.605	179	0.356	0.095	88.20	0.135	83.70
51	0.930	1.76	4.44	1,383	0.628	187	0.356	0.081	89.10	0.113	85.10
97	0.935	1.73	4.29	1,313	0.612	183	0.354	0.081	89.50	0.115	85.40
98	0.930	1.85	4.40	1,459	0.592	185	0.352	0.086	88.50	0.122	84.30
<b>AVERAGE</b>	<b>0.933</b>	<b>1.80</b>	<b>4.31</b>	<b>1,370</b>	<b>0.609</b>	<b>184</b>	<b>0.355</b>	<b>0.086</b>	<b>88.83</b>	<b>0.121</b>	<b>84.63</b>
<b>B</b>											
01	0.923	1.99	4.40	1,260	0.496	178	0.360	0.074	89.80	0.120	83.90
17	0.916	2.04	4.52	1,400	0.496	178	0.352	0.071	90.00	0.120	84.00
45	0.930	1.90	4.75	1,390	0.547	182	0.343	0.068	90.10	0.110	84.60
<b>AVERAGE</b>	<b>0.923</b>	<b>1.98</b>	<b>4.56</b>	<b>1,350</b>	<b>0.513</b>	<b>179.3333</b>	<b>0.352</b>	<b>0.071</b>	<b>89.97</b>	<b>0.117</b>	<b>84.17</b>
<b>C</b>											
28	0.926	1.75	4.10	1,339	0.434	186	0.345	0.117	84.06	0.128	83.21
66	0.987	1.76	4.18	1,487	0.400	180	0.347	0.113	83.85	0.120	83.53
90	0.932	1.76	4.30	1,423	0.394	185	0.345	0.102	84.86	0.112	83.95
99	0.944	1.80	4.53	1,422	0.406	177	0.344	0.110	83.94	0.117	83.72
<b>AVERAGE</b>	<b>0.947</b>	<b>1.77</b>	<b>4.28</b>	<b>1,418</b>	<b>0.409</b>	<b>182</b>	<b>0.345</b>	<b>0.111</b>	<b>84.18</b>	<b>0.119</b>	<b>83.60</b>
<b>E</b>											
15	0.983	3.05	6.93	2,040	0.514	173	0.352	0.082	89.25	0.128	83.78
89	0.953	3.05	7.13	2,180	0.540	189	0.352	0.080	89.11	0.125	83.66
<b>AVERAGE</b>	<b>0.968</b>	<b>3.05</b>	<b>7.03</b>	<b>2,110</b>	<b>0.527</b>	<b>181</b>	<b>0.352</b>	<b>0.081</b>	<b>89.18</b>	<b>0.127</b>	<b>83.72</b>
<b>F</b>											
02	1.023	1.87	4.33	1,449	0.424	198	0.342	0.083	89.57	0.143	82.72
11	0.994	1.81	3.97	1,419	0.418	198	0.349	0.082	89.51	0.141	82.77
34	0.968	1.90	4.09	1,470	0.475	200	0.342	0.088	88.70	0.144	82.39
48	0.974	1.89	4.30	1,465	0.442	195	0.346	0.081	89.02	0.128	83.42
56	0.995	1.78	3.97	1,590	0.518	203	0.341	0.080	89.66	0.129	84.01
62	0.974	1.76	4.05	1,560	0.529	209	0.343	0.083	89.42	0.130	84.08
<b>AVERAGE</b>	<b>0.988</b>	<b>1.84</b>	<b>4.12</b>	<b>1,492</b>	<b>0.468</b>	<b>200.5</b>	<b>0.344</b>	<b>0.083</b>	<b>89.31</b>	<b>0.136</b>	<b>83.23</b>
<b>J</b>											
05	0.950	1.75	4.33	1,379	0.581	185	0.346	0.040	94.21	0.106	85.96
08	0.943	1.75	4.22	1,486	0.515	180	0.344	0.045	93.72	0.114	85.34
10	0.947	1.83	4.23	1,355	0.531	182	0.339	0.061	91.51	0.126	83.93
22	0.916	1.74	4.28	1,452	0.586	190	0.343	0.065	90.97	0.111	85.48
31	0.933	1.74	4.29	1,438	0.587	182	0.341	0.055	92.21	0.102	86.45
41	0.956	1.77	4.24	1,213	0.541	184	0.344	0.059	91.92	0.121	84.52
44	0.924	1.72	4.15	1,336	0.540	178	0.348	0.055	92.56	0.121	84.78
52	0.967	1.80	4.41	1,334	0.583	182	0.349	0.056	91.92	0.099	86.58
<b>AVERAGE</b>	<b>0.942</b>	<b>1.76</b>	<b>4.27</b>	<b>1,374</b>	<b>0.558</b>	<b>182.875</b>	<b>0.344</b>	<b>0.054</b>	<b>92.38</b>	<b>0.113</b>	<b>85.38</b>
<b>L</b>											
25	1.037	1.68	3.21	2,008	0.580			0.093	88.06	0.142	82.42
59	1.025	1.84	4.45	1,043	0.471			0.113	84.30	0.113	84.77
<b>AVERAGE</b>	<b>1.031</b>	<b>1.76</b>	<b>3.83</b>	<b>1,526</b>	<b>0.526</b>			<b>0.103</b>	<b>86.18</b>	<b>0.128</b>	<b>83.60</b>
<b>M</b>											
04	0.990	1.74	3.75	1,216	0.335	178	0.362				
47	0.988	1.69	3.87	1,186	0.479	182	0.358				
57	0.968	1.53	3.50	1,156	0.340	177	0.355				
<b>AVERAGE</b>	<b>0.982</b>	<b>1.66</b>	<b>3.71</b>	<b>1,186</b>	<b>0.385</b>	<b>179</b>	<b>0.358</b>				
<b>N</b>											
43	0.948	1.86	4.14	1,520	0.447	162	0.364	0.135	82.93	0.146	82.21
95	0.910	1.78	4.28	1,390	0.451	167	0.362	0.130	83.60	0.139	83.11
<b>AVERAGE</b>	<b>0.929</b>	<b>1.82</b>	<b>4.21</b>	<b>1,455</b>	<b>0.449</b>	<b>164.5</b>	<b>0.363</b>	<b>0.133</b>	<b>83.27</b>	<b>0.143</b>	<b>82.66</b>
<b>P</b>											
30	0.935	1.85	4.09	1,343	0.416	158	0.366	0.186	77.68	0.199	76.37
73	0.965	1.86	4.08	1,592	0.652	194	0.350	0.086	88.89	0.124	84.52
<b>AVERAGE</b>	<b>0.950</b>	<b>1.86</b>	<b>4.09</b>	<b>1,468</b>	<b>0.534</b>	<b>176</b>	<b>0.358</b>	<b>0.136</b>	<b>83.28</b>	<b>0.162</b>	<b>80.45</b>
<b>S</b>											
53	1.016	1.79	4.06	1,410	0.549	196	0.346	0.137	82.86	0.138	83.26
64	0.996	1.74	3.91	1,440	0.588	192	0.345	0.143	82.78	0.143	83.23
<b>AVERAGE</b>	<b>1.006</b>	<b>1.77</b>	<b>3.99</b>	<b>1,425</b>	<b>0.5685</b>	<b>194</b>	<b>0.346</b>	<b>0.140</b>	<b>82.82</b>	<b>0.141</b>	<b>83.25</b>
<b>V</b>											
58	0.975	1.76	3.81	1,560	0.578	179	0.357	0.089	89.07	0.151	82.25
78	0.980	1.76	3.90	1,450	0.530	170	0.354	0.094	88.96	0.157	82.54
<b>AVERAGE</b>	<b>0.978</b>	<b>1.76</b>	<b>3.86</b>	<b>1,505</b>	<b>0.554</b>	<b>174.5</b>	<b>0.356</b>	<b>0.092</b>	<b>89.02</b>	<b>0.154</b>	<b>82.40</b>

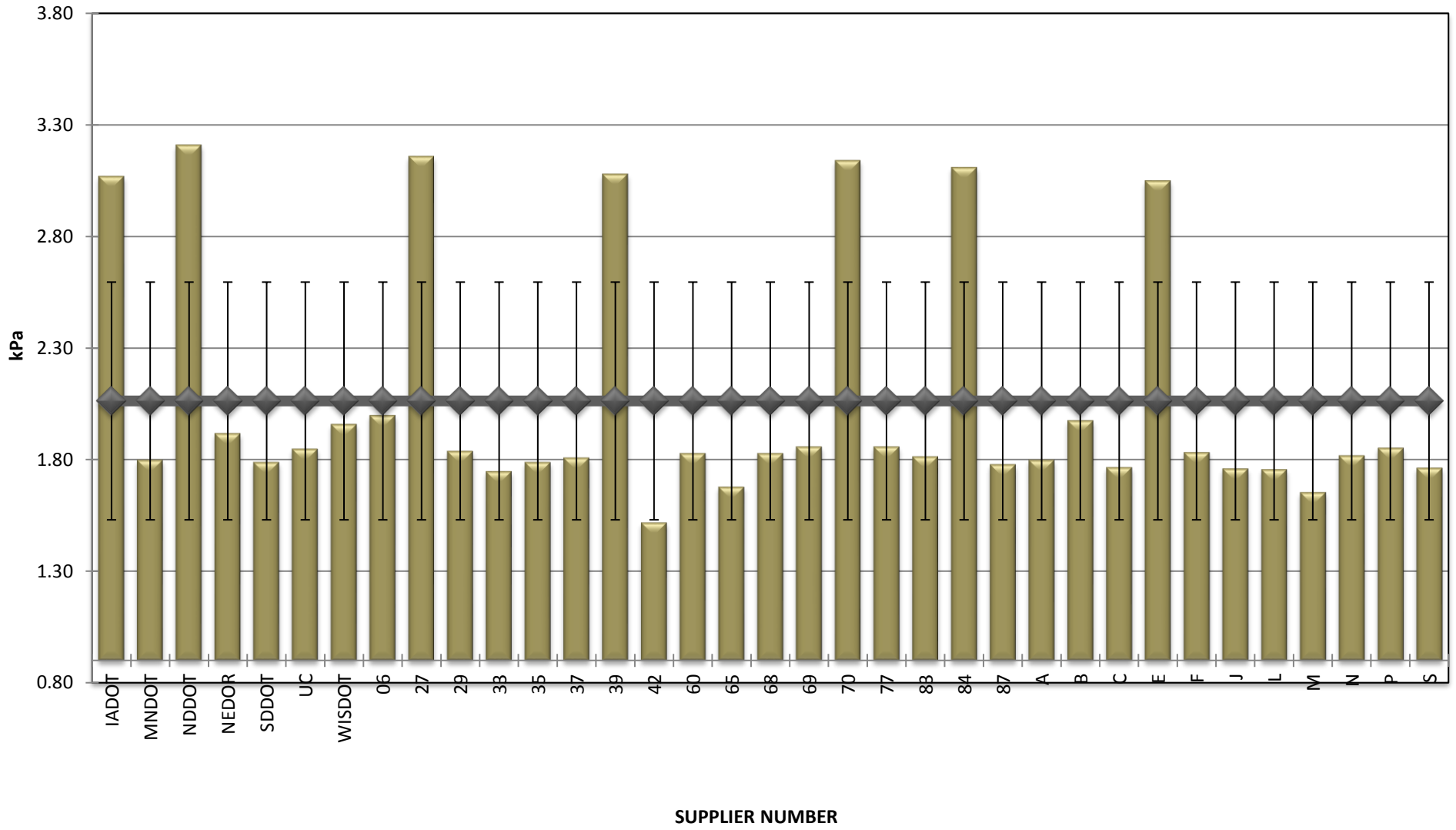
**COMBINED STATE BINDER GROUP ROUND ROBIN  
SUMMARY B 2016-3  
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**ROTATIONAL VISCOSITY**



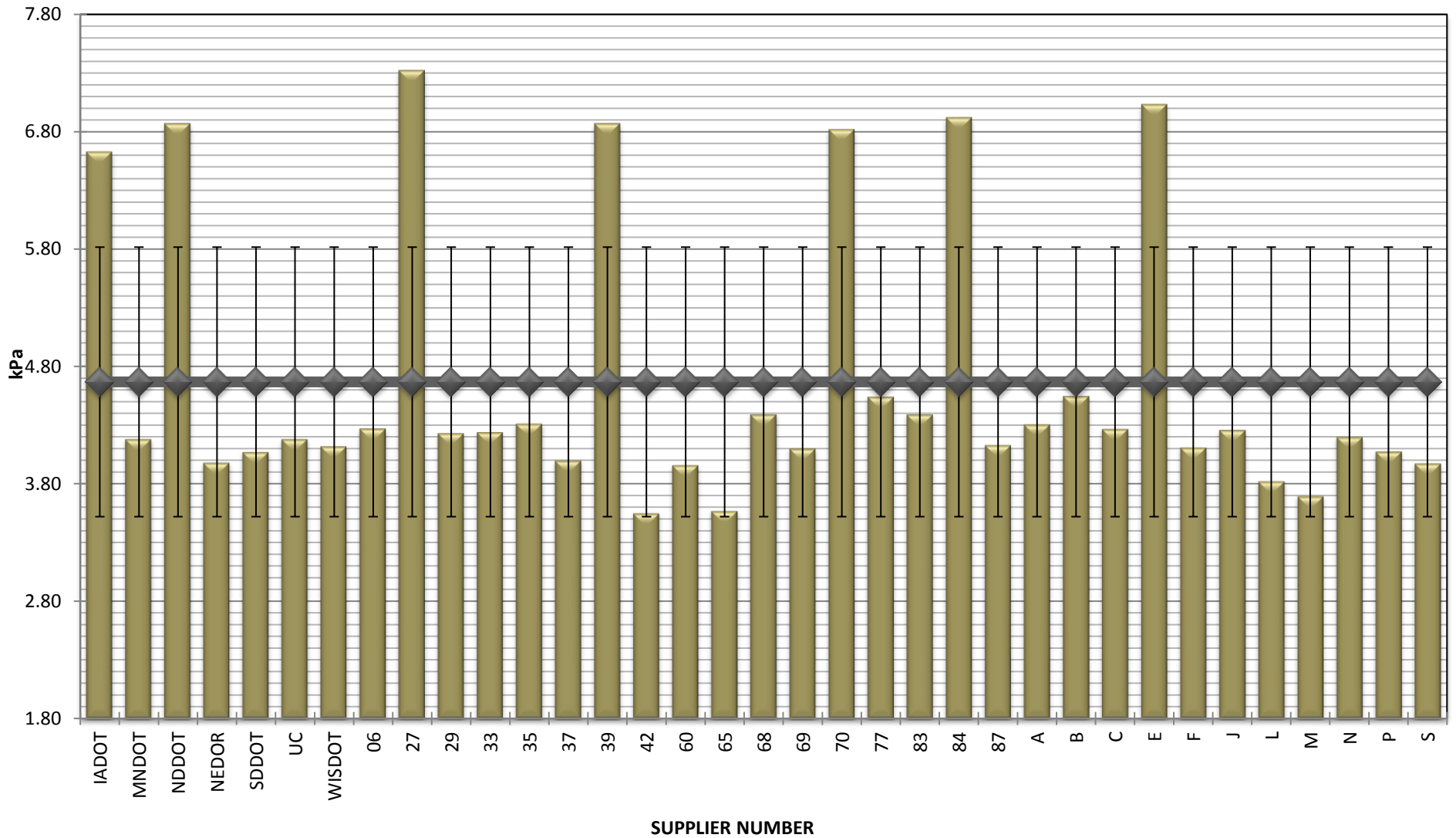
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**DSR - ORIGINAL**



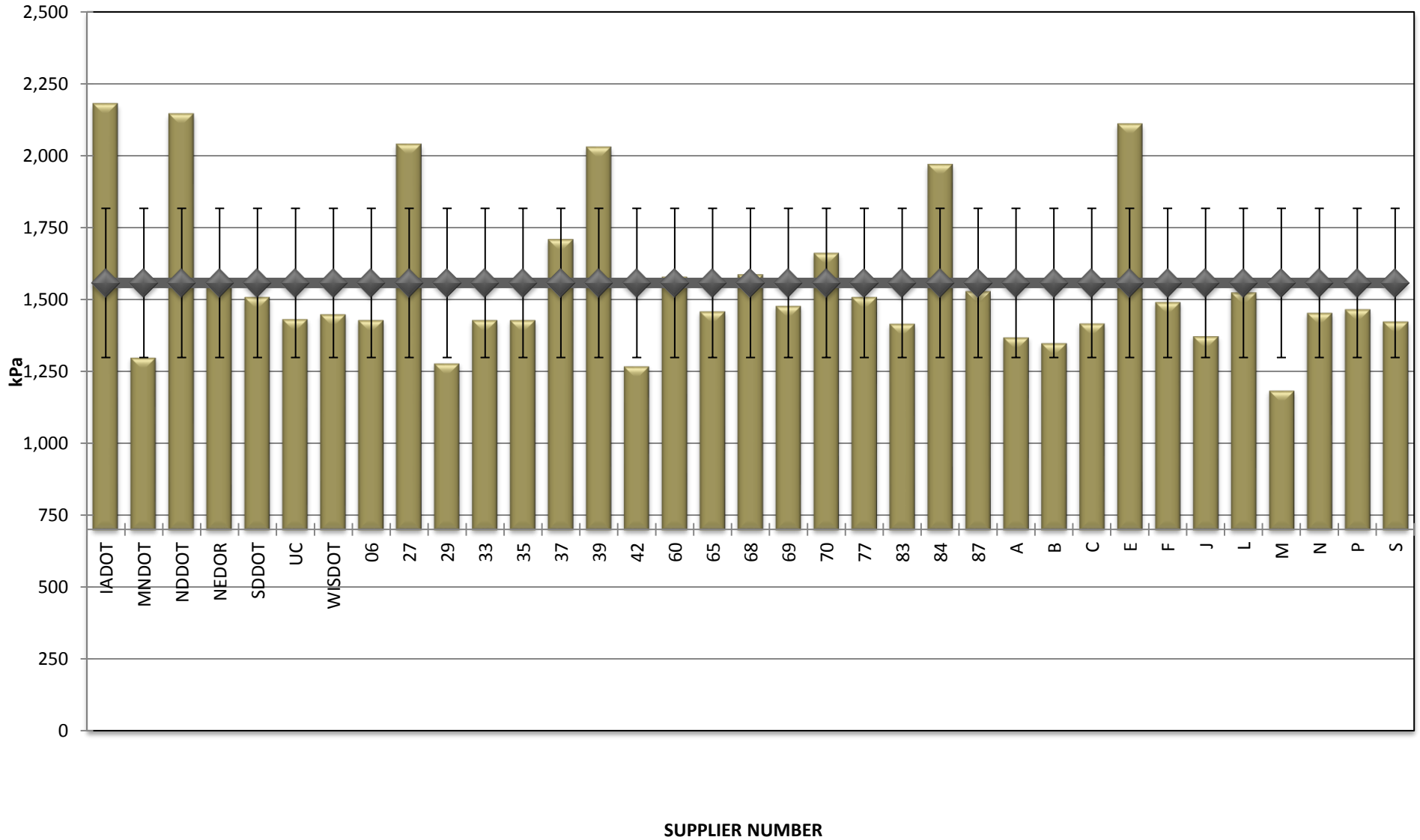
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**DSR - RTFO**



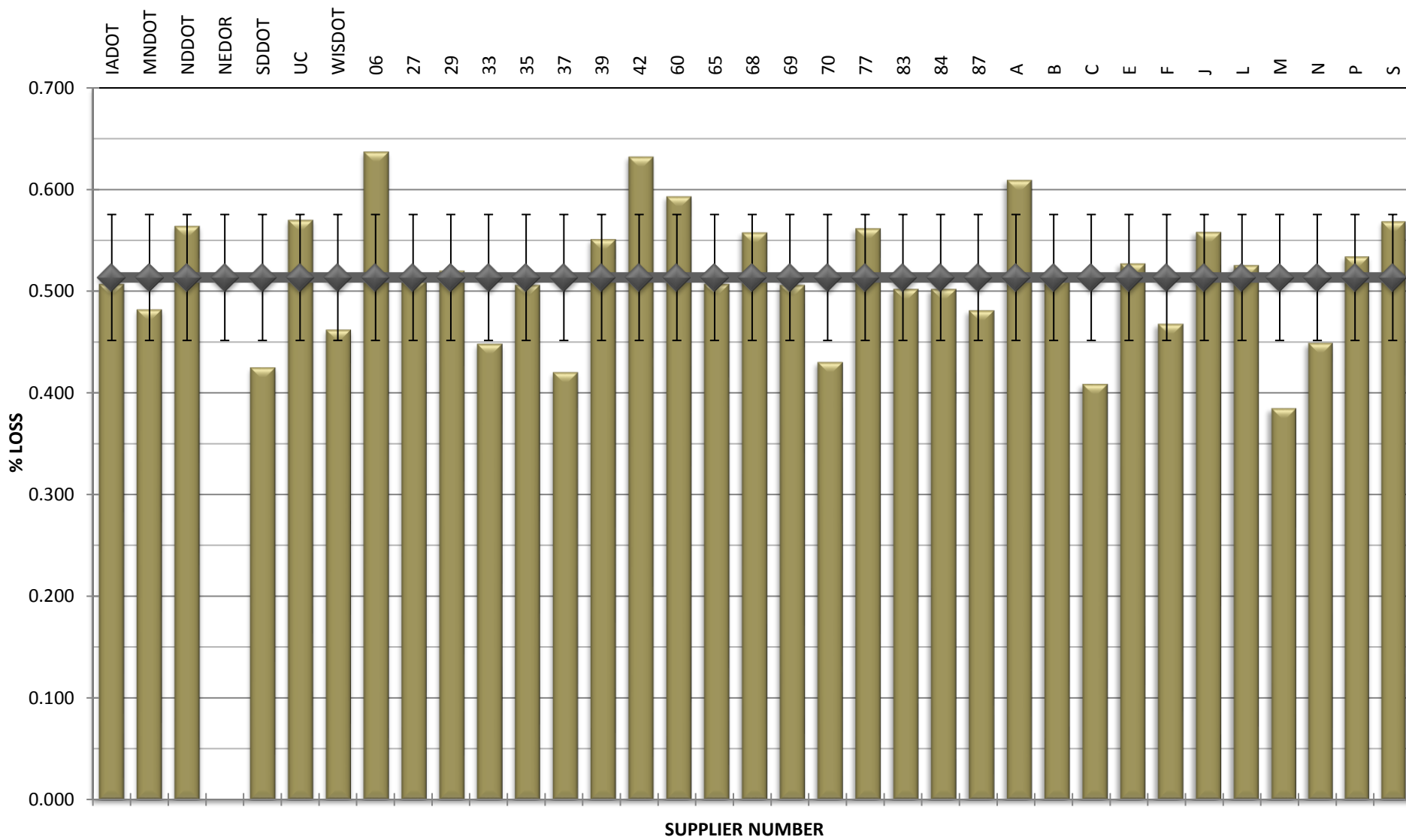
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**DSR - PAV**



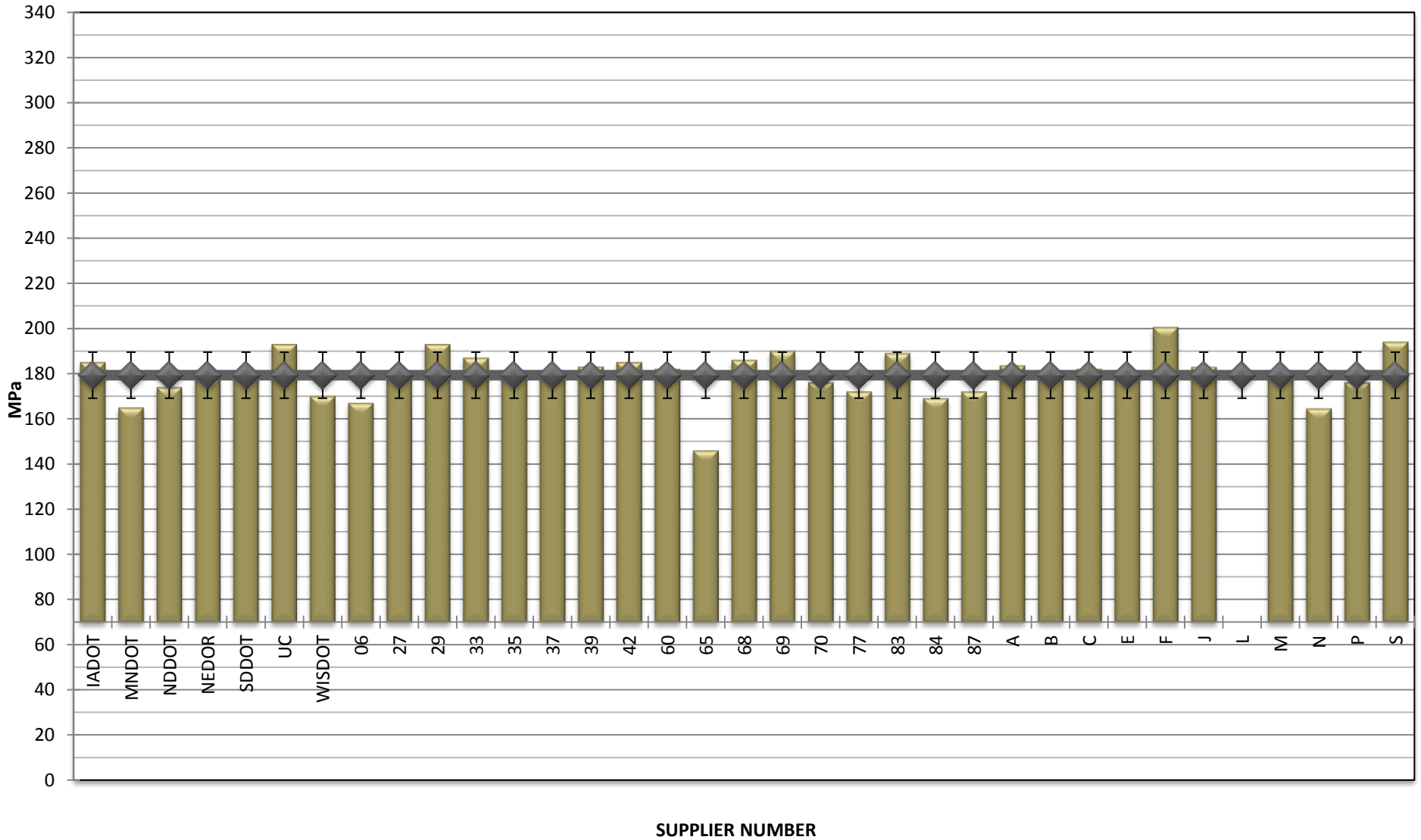
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**RTFO MASS LOSS**



**COMBINED STATE BINDER GROUP ROUND ROBIN  
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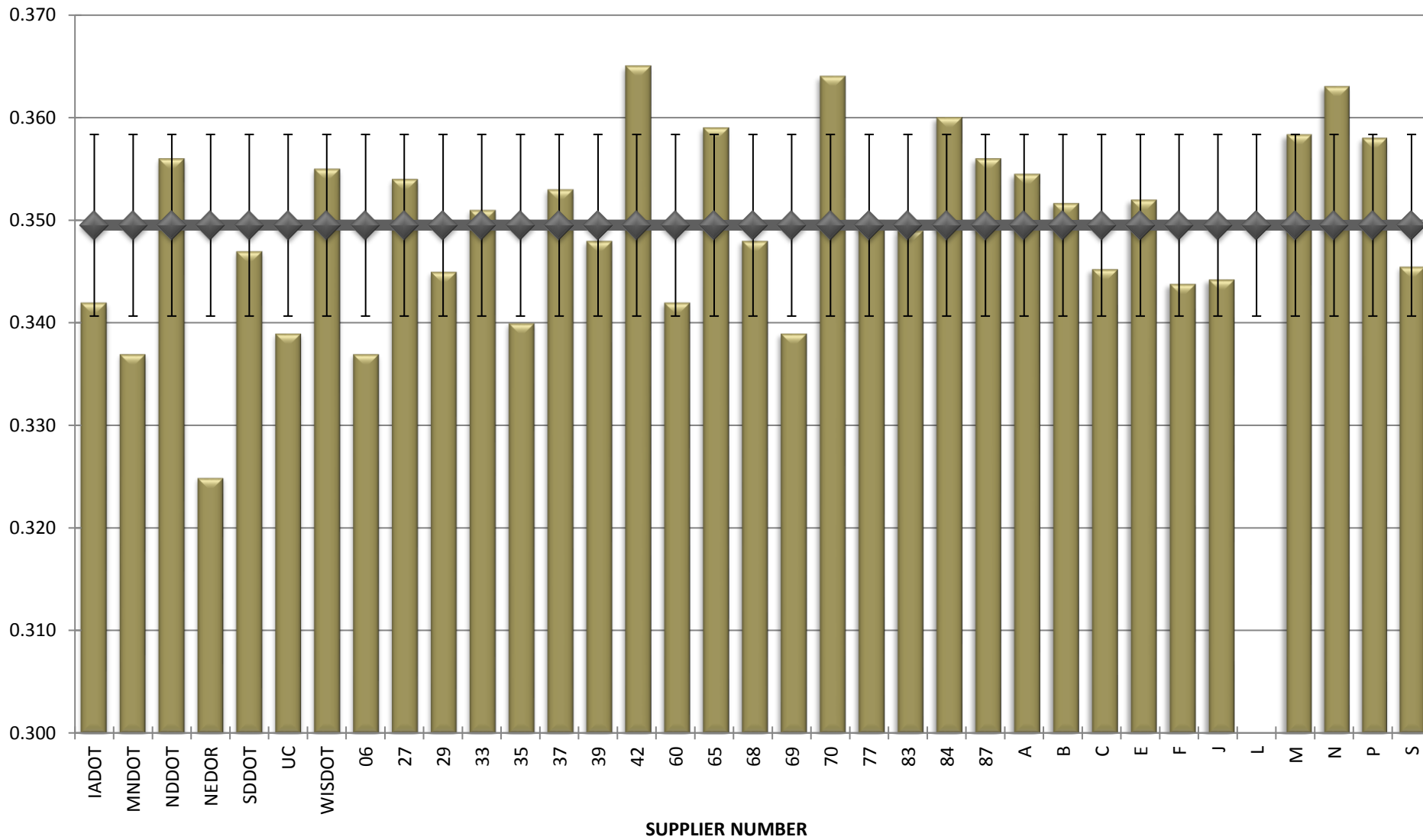
**BBR STIFFNESS**





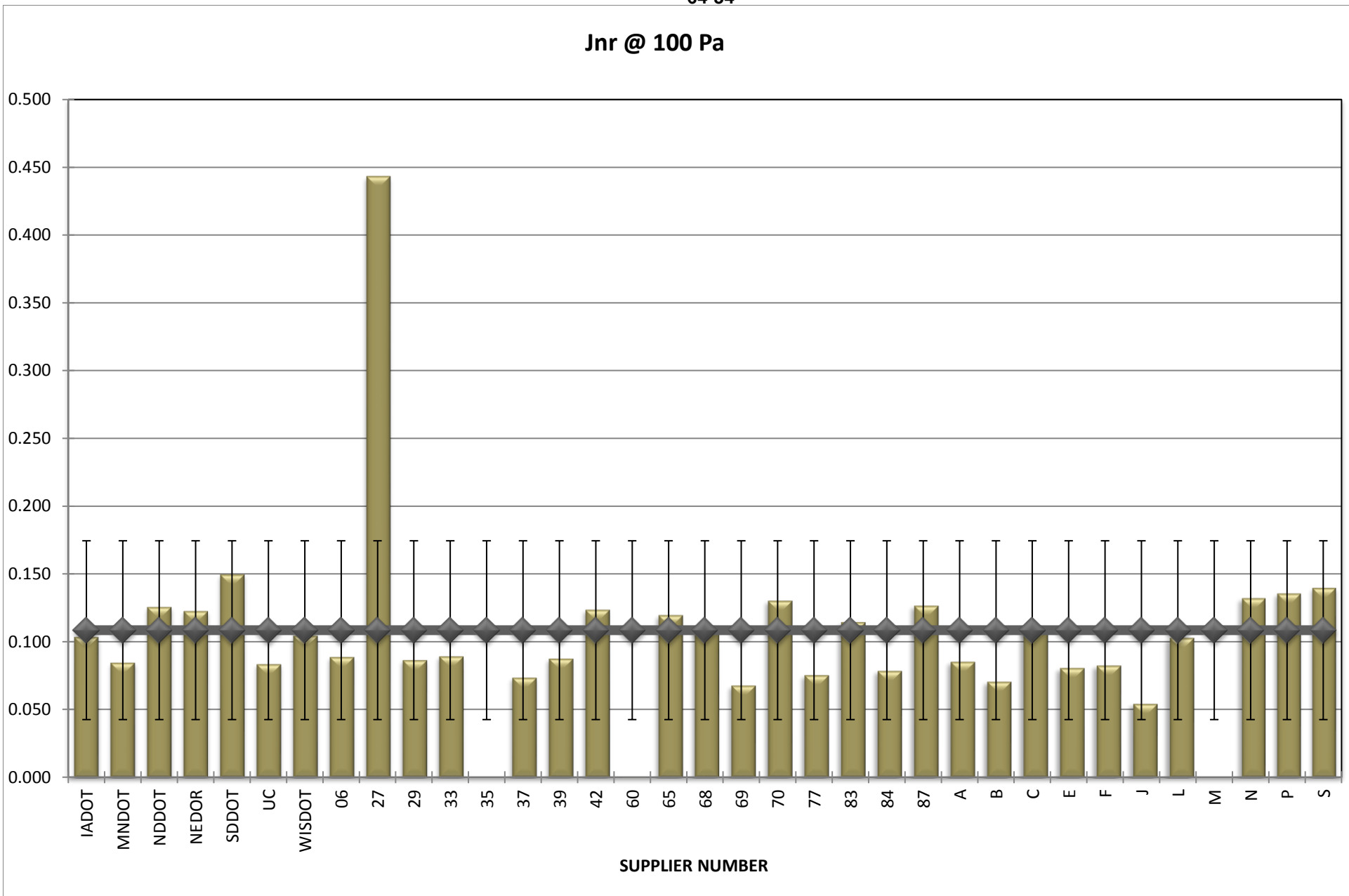
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**BBR m-VALUE**



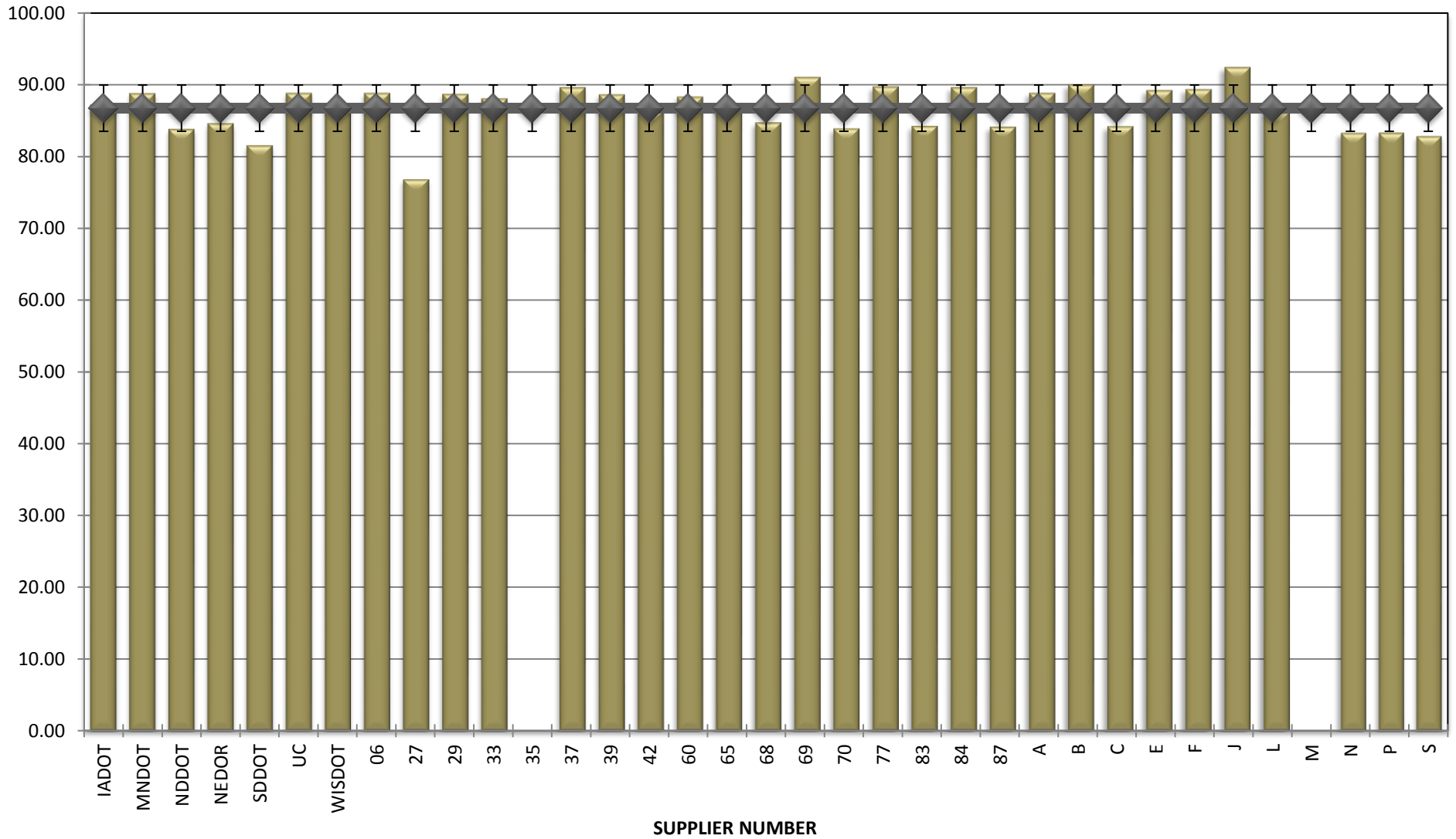
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**Jnr @ 100 Pa**



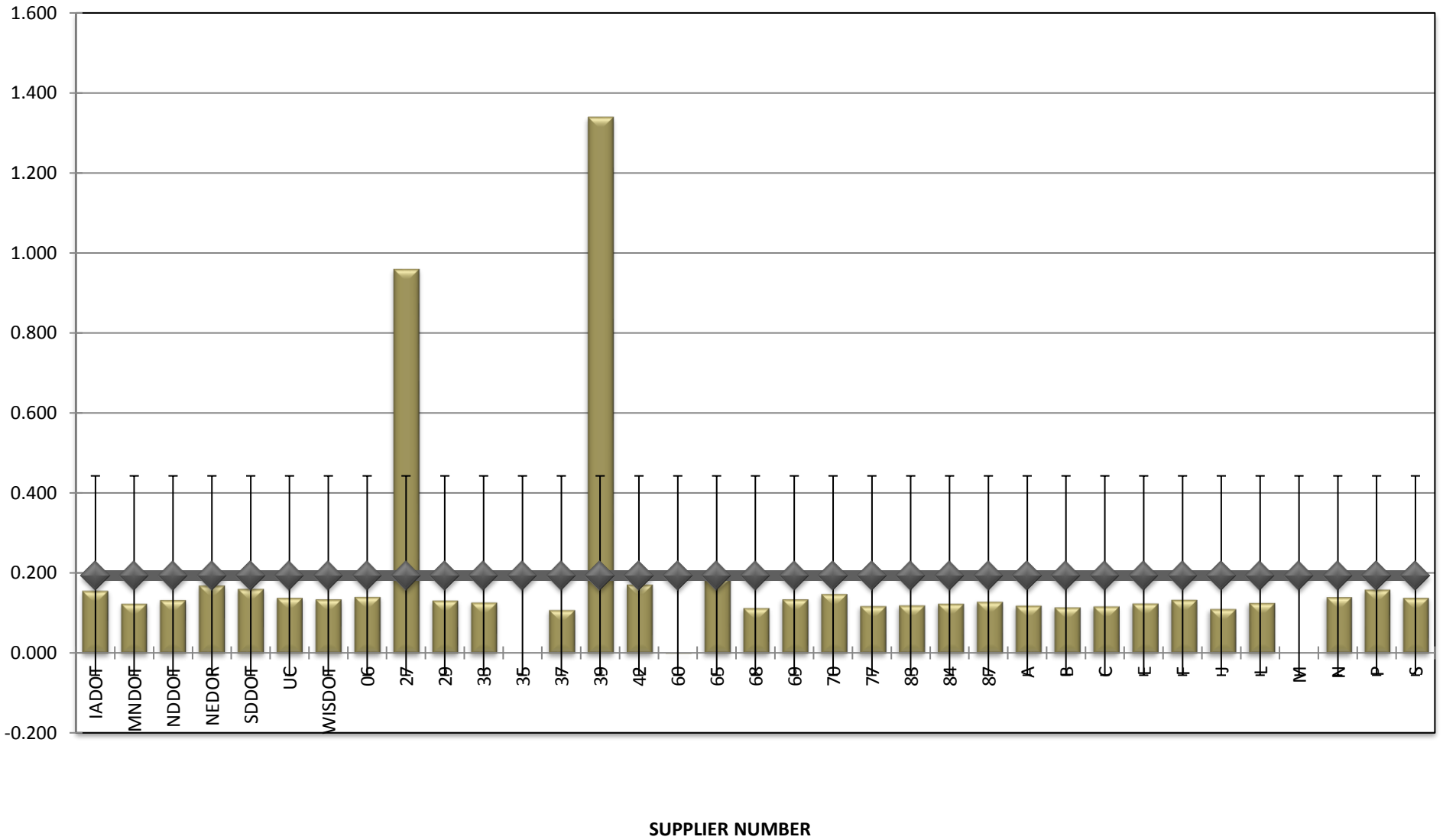
**COMBINED STATE BINDER GROUP ROUND ROBIN  
SUMMARY B 2016-3  
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**% Recovery @ 100 Pa**



COMBINED STATE BINDER GROUP ROUND ROBIN  
SUMMARY B 2016-3  
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Jnr @ 3200 Pa



**COMBINED STATE BINDER GROUP ROUND ROBIN  
SUMMARY B 2016-3  
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**% Recovery @ 3200 Pa**

