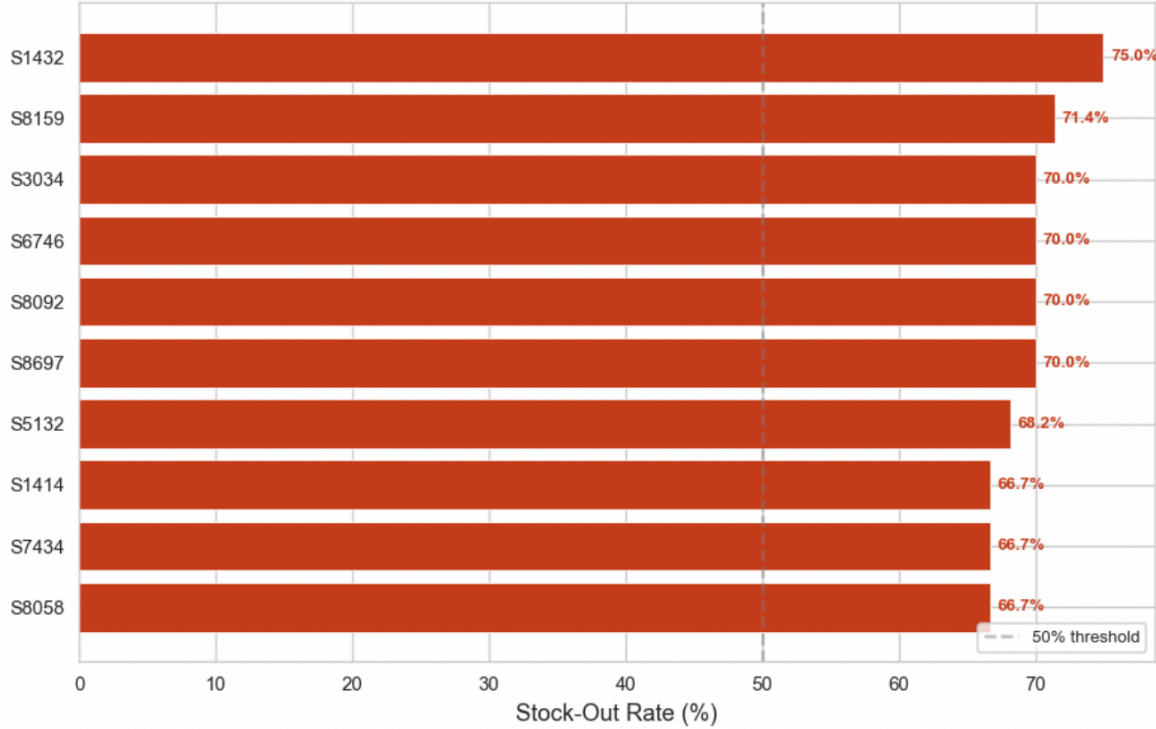
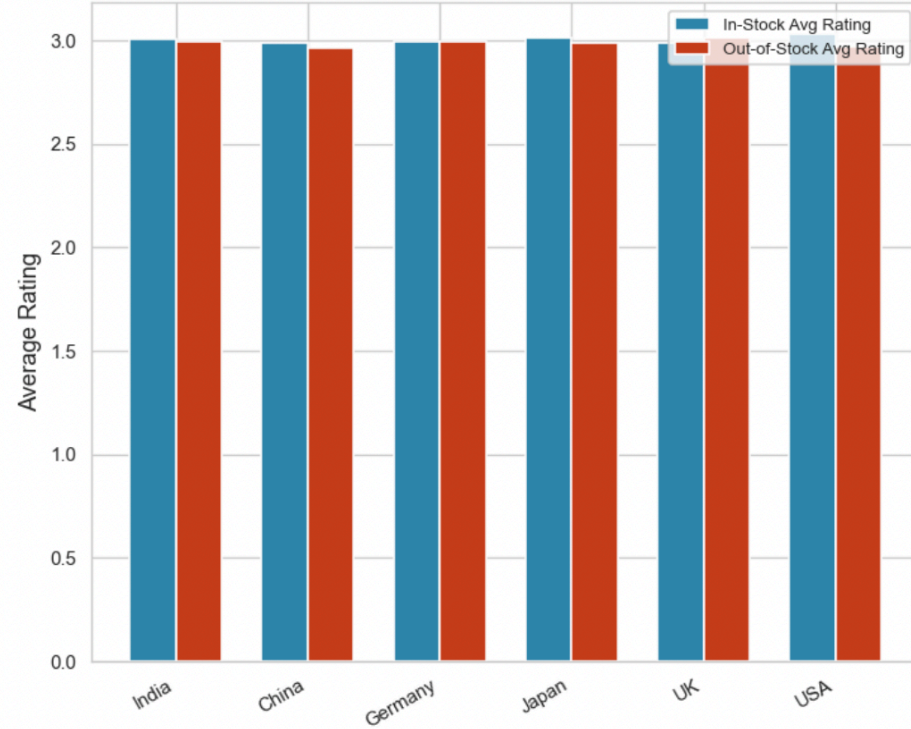


**Top 10 Sellers by Stock-Out Rate  
(min 20 products)**



**Rating Gap: In-Stock vs Out-of-Stock  
by Manufacturing Country**



*Welch's T-test: t=2.118, p=0.0341* □ SIGNIFICANT

```

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STATISTICAL TEST: Welch's T-test (In-Stock vs Out-of-Stock Ratings)
In-Stock mean rating: 3.0032 (n=49,762)
Out-of-Stock mean rating: 2.9877 (n=50,238)
t-statistic: 2.1185
p-value: 0.034138
Conclusion: Rating penalty is STATISTICALLY SIGNIFICANT
=====
    
```

 TABLE 1A: Top 10 Sellers by Stock-Out Rate

Seller ID	Total Products	Out of Stock	Stock-Out Rate	Avg Rating
S1432	20	15	75.0%	3.16
S8159	21	15	71.4%	3.13
S3034	20	14	70.0%	2.56
S6746	20	14	70.0%	2.44
S8092	20	14	70.0%	2.94
S8697	20	14	70.0%	2.96
S5132	22	15	68.2%	2.96
S1414	21	14	66.7%	2.91
S7434	21	14	66.7%	2.94
S8058	21	14	66.7%	2.78

 TABLE 1B: Stock-Out Rate by Manufacturing Country

Country	Total SKUs	Stock-Out Rate	Avg Rating (In)	Avg Rating (OOS)	Rating Gap
India	16672	50.8%	3.007	2.996	0.012
China	16722	50.7%	2.985	2.964	0.020
USA	16666	49.4%	3.030	2.972	0.059
Japan	16745	50.0%	3.010	2.986	0.024
UK	16636	49.9%	2.991	3.012	-0.022
Germany	16559	50.5%	2.995	2.996	-0.001