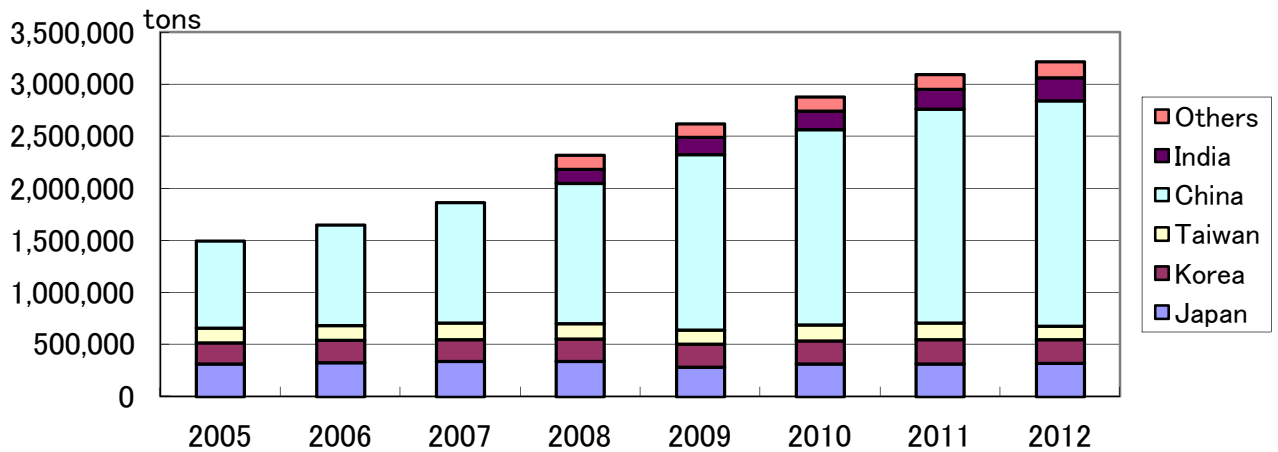


Nonwovens Production in Asia (2012)

METI, KNIC, TNFIA, CNTA, BCH, ANNA

1. Production Trend (tons)

	2005	2006	2007	2008	2009	2010	2011	2012	'12/'11%
Japan	313,941	329,752	338,281	338,436	283,378	313,417	313,020	320,926	102.5
Korea	205,960	210,795	213,065	214,836	220,160	224,854	233,161	226,223	97.0
Taiwan	140,551	144,000	160,038	150,033	140,075	149,954	164,797	130,492	79.2
China	838,000	966,000	1,150,600	1,347,000	1,685,000	1,879,000	2,054,700	2,163,000	105.3
India	—	—	—	135,000	162,000	175,000	186,250	222,640	119.5
Others				132,000	130,000	140,000	145,000	152,250	105.0
Total	1,498,452	1,650,547	1,861,984	2,317,305	2,620,613	2,882,225	3,096,928	3,215,531	103.8



2. Production Process (tons)

	Japan	Korea	Taiwan	China	India	Total
Chemicalbonded	18,311	19,408	1,509	107,000	—	146,228
Thermalbonded	36,854	20,239	12,951	122,000	—	192,044
Needlepunched	73,708	85,948	47,154	530,000	75,000	811,810
Spunlaced	37,512	8,452	42,655	243,000	19,640	351,259
Spunbonded/MB	97,826	88,663	21,435	1,050,000	120,000	1,377,924
Other/Dry—laid	25,055	834	900	93,500	8,000	128,289
Wet—laid	31,663	2,679	3,888	17,500	—	55,730
Total	320,926	226,223	130,492	2,163,000	222,640	3,063,281

