Variation of wear rate and co-efficient of friction with different load and sliding speed is shown in table 1-6.

Sr. No.	Initial Weight (g)	Final Weight (g)	Weight loss (g)	Load (N)	Speed (rpm)
1	97.3716	97.3702	0.0014	29.4	250
2	94.7013	94.6523	0.0012	29.4	200
3	93.2314	93.1876	0.0438	58.8	200
4	98.0523	98.0306	0.0217	44.1	150
5	94.3403	94.3000	0.0011	29.4	150
6	93.5061	93.4826	0.0235	44.1	200
7	89.6268	89.5865	0.0403	58.8	150
8	91.6680	91.6176	0.0504	58.8	250
9	96.3465	96.3145	0.032	44.1	250

Table 1.Wear rate of thermal spray coating with brass pin at various loading and sliding conditions

Sr. No.	Initial Weight (g)	Final Weight (g)	Weight loss (g)	Load (N)	Speed (rpm)
1	93.1109	93.0616	0.0493	29.4	250
2	92.8001	92.7577	0.0424	29.4	200
3	93.3965	93.3278	0.0687	58.8	200
4	96.2451	96.2237	0.0514	44.1	150
5	93.3603	93.3212	0.0391	29.4	150
6	95.5976	95.5411	0.0565	44.1	200
7	97.8641	97.8087	0.0554	58.8	150
8	91.5094	91.4094	0.1	58.8	250
9	95.9820	95.9153	0.0667	44.1	250

Table 2.Wear rate of coating with medium carbon steel pin at various loads and sliding conditions

Sr. No.	Initial Weight (g)	Final Weight (g)	Weight loss (g)	Load (N)	Speed (rpm)
1	93.4287	93.3621	0.0666	29.4	250
2	92.4495	92.3923	0.0572	29.4	200
3	95.7189	95.6329	0.0860	58.8	200
4	94.1171	94.0716	0.0455	44.1	150
5	95.0371	95.0069	0.0302	29.4	150
6	96.3872	96.3173	0.0699	44.1	200
7	94.3284	94.2551	0.0533	58.8	150
8	93.3440	93.2441	0.0999	58.8	250
9	93.9402	93.8663	0.0739	44.1	250

Table 3.Mass loss of coating with high carbon steel pin at different loading and sliding conditions

Sr. No.	Frictional Force (N)	Load (N)	Coefficient of friction, μ	Speed (rpm)
1	21.2500	29.4	0.72279	250
2	22.4998	29.4	0.7653	200
3	58.0488	58.8	0.67656	200
4	37.4991	44.1	0.85034	150
5	25.5139	29.4	0.86782	150
6	31.2501	44.1	0.70862	200
7	46.2497	58.8	0.78656	150
8	37.3562	58.8	0.63531	250
9	28.7766	44.1	0.65253	250

Table 4.Co-efficient of friction of coating with brass pin at various loading and sliding conditions

Sr. No.	Frictional Force (N)	Load (N)	Coefficient of friction, μ	Speed (rpm)
1	21.55678	29.4	0.7336	250
2	22.4998	29.4	0.7653	200
3	42.4066	58.8	0.7212	200
4	34.2613	44.1	0.7769	150
5	24.9988	29.4	0.8503	150
6	33.3087	44.1	0.7553	200
7	62.0162	58.8	0.7228	150
8	39.2607	58.8	0.6677	250
9	32.0431	44.1	0.7266	250

Table 5.Co-efficient of friction of coating with medium carbon steel pin at various loading and sliding conditions

Sr. No.	Frictional Force (N)	Load (N)	Coefficient of friction, μ	Speed (rpm)
1	23.4994	29.4	0.7993	250
2	24.6313	29.4	0.8378	200
3	44.9996	58.8	0.7653	200
4	39.3989	44.1	0.8934	150
5	28.3063	29.4	0.9628	150
6	35.32851	44.1	0.8011	200
7	49.0216	58.8	0.8337	150
8	38.3317	58.8	0.6519	250
9	33.5425	44.1	0.7606	250

Table 6.Coefficient of friction of thermal spray coating with high carbon steel pin at different load and sliding conditions