

Indian Standard
GENERAL PURPOSE FURNACE [GPF (N-660)]
CARBON BLACK — SPECIFICATION

1. SCOPE

1.1 This standard prescribes the requirements and methods of sampling and test for general purpose furnace [GPF (N-660)] carbon black for use in rubber industry.

2 REFERENCES

2.1 The Indian Standards given in Annex A are necessary adjuncts to this standard.

ANNEX A
(Clause 2.1)

LIST OF INDIAN STANDARDS REFERRED

| <i>IS No.</i> | <i>Title</i> |
|-------------------------|---|
| 1675 : 1971 | Stearic acid, technical (<i>first revision</i>) |
| 3399 : 1973 | Zinc oxide for rubber industry (<i>first revision</i>) |
| 3400 (Part 1) : 1987 | Methods of test for vulcanized rubbers: Part 1 Tensile stress-strain properties (<i>second revision</i>) |
| 4588 : 1986 | Rubber, raw natural (<i>third revision</i>) |
| 7498 : 1985 | Methods of sampling and test for carbon black (<i>first revision</i>) |
| 7503 : | Glossary of terms used in rubber industry |
| Part 1 : 1988 | Basic terms |
| Part 2 : 1988 | Definitions of additive (<i>first revision</i>) |
| Part 3 : 1988 | Definitions relating to properties and testing (<i>first revision</i>) |
| Part 4 : 1988 | Definitions relating to processing (<i>first revision</i>) |
| 8483: 1989 | Dibenzothiazyl disulphide (<i>first revision</i>) |
| 8851 : 1978 | Sulphur for rubber industry |

ANNEX B
(Clause 4.4)

**SCHEDULE FOR COMPOUNDING AND TESTING FOR PHYSICAL EVALUATION
OF CARBON BLACK**

B-2 STANDARD NATURAL RUBBER COMPOUNDING FORMULATION

B-2.1 The standard formulation for testing carbon black is given below:

| <i>Material</i> | <i>Parts by Mass</i> |
|---|----------------------|
| Natural rubber grade ISNR : 5 (see IS 4588 : 1986) | 100 |
| Zinc oxide (see IS 3399 : 1973) | 5 |
| Stearic acid (see IS 1675 : 1975) | 3 |
| Dibenzothiazyl disulphide (see IS 8483 : 1989) | 0.6 |
| Sulphur (see IS 8851 : 1978) | 2.5 |
| Carbon Black GPF (N-660) | 50 |