

# Angle-Opacity Correction Chart

For use when viewing angle from observer to plume exceeds 18°

|                  | Observation Angle     |     |     |     |     |
|------------------|-----------------------|-----|-----|-----|-----|
|                  | 20°                   | 30° | 40° | 50° | 60° |
| Observed Opacity | Corrected Opacity (%) |     |     |     |     |
| 95%              | 94                    | 93  | 90  | 85  | 78  |
| 90%              | 89                    | 86  | 83  | 77  | 68  |
| 85%              | 83                    | 81  | 77  | 71  | 62  |
| 80%              | 78                    | 75  | 71  | 65  | 55  |
| 75%              | 73                    | 70  | 65  | 59  | 50  |
| 70%              | 68                    | 65  | 60  | 54  | 45  |
| 65%              | 63                    | 60  | 55  | 49  | 41  |
| 60%              | 58                    | 55  | 50  | 45  | 37  |
| 55%              | 53                    | 50  | 46  | 40  | 33  |
| 50%              | 48                    | 45  | 41  | 36  | 29  |
| 45%              | 43                    | 40  | 37  | 32  | 26  |
| 40%              | 38                    | 36  | 32  | 28  | 23  |
| 35%              | 33                    | 31  | 28  | 24  | 19  |
| 30%              | 29                    | 27  | 24  | 21  | 16  |
| 25%              | 24                    | 22  | 20  | 17  | 13  |
| 20%              | 19                    | 18  | 16  | 13  | 11  |
| 15%              | 14                    | 13  | 12  | 10  | 8   |
| 10%              | 9                     | 9   | 8   | 7   | 5   |
| 5%               | 4                     | 4   | 3   | 3   | 3   |