

AQI Air Quality Index

Range:

Air Quality Index (AQI) Values	Levels of Health Concern	Colors
0 to 50	Good	Green
51 to 100	Moderate	Yellow
101 to 150	Unhealthy for Sensitive Groups	Orange
151 to 200	Unhealthy	Red
201 to 300	Very Unhealthy	Purple
301 to 500	Hazardous	Maroon

Values for PM_{2.5}, PM₁₀, CO, O₃, NO₂ and SO₂

O ₃ (ppb)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	CO (ppm)	SO ₂ (ppb)	NO ₂ (ppb)	AQI	AQI	
<i>Clow - Chigh (avg)</i>	<i>Clow - Chigh (avg)</i>	<i>Clow- Chigh (avg)</i>	<i>Clow - Chigh (avg)</i>	<i>Clow - Chigh (avg)</i>	<i>Clow - Chigh (avg)</i>	<i>Clow - Chigh (avg)</i>	<i>llow - lhigh</i>	Category
0-54 (8-hr)	-	0.0-12.0 (24-hr)	0-54 (24-hr)	0.0-4.4 (8-hr)	0-35 (1-hr)	0-53 (1-hr)	0-50	Good
55-70 (8-hr)	-	12.1-35.4 (24-hr)	55-154 (24-hr)	4.5-9.4 (8-hr)	36-75 (1-hr)	54-100 (1-hr)	51-100	Moderate
71-85 (8-hr)	125-164 (1-hr)	35.5-55.4 (24-hr)	155-254 (24-hr)	9.5-12.4 (8-hr)	76-185 (1-hr)	101-360 (1-hr)	101-150	Unhealthy for Sensitive Groups
86-105 (8-hr)	165-204 (1-hr)	55.5-150.4 (24-hr)	255-354 (24-hr)	12.5-15.4 (8-hr)	186-304 (1-hr)	361-649 (1-hr)	151-200	Unhealthy
106-200 (8-hr)	205-404 (1-hr)	150.5-250.4 (24-hr)	355-424 (24-hr)	15.5-30.4 (8-hr)	305-604 (24-hr)	650-1249 (1-hr)	201-300	Very Unhealthy
-	405-504 (1-hr)	250.5-350.4 (24-hr)	425-504 (24-hr)	30.5-40.4 (8-hr)	605-804 (24-hr)	1250-1649 (1-hr)	301-400	Hazardous
-	505-604 (1-hr)	350.5-500.4 (24-hr)	505-604 (24-hr)	40.5-50.4 (8-hr)	805-1004 (24-hr)	1650-2049 (1-hr)	401-500	

Compare AQI in US and China (24 hour average):

PM2.5 µg/m ³	Description China	IAQI Score	Description US	PM2.5 µg/m ³
0-35	Excellent	0-50	Good	0-12
35-75	Good	51-100	Moderate	12.1-35.4
75-115	Lightly Polluted	101-150	Unhealthy for Sensitive Groups	35.5-55.5
115-150	Moderately Polluted	151-200	Unhealthy	55.6-150.4
150-250	Heavily Polluted	201-300	Very Unhealthy	150.5-250.4
250-500	Severely Polluted	301-500	Hazardous	250.5-500

Source: <https://www.healthandsafetyinshanghai.com/china-air-quality.html>

Conversion:

SO ₂	1 ppb = 2.62 µg/m ³
NO ₂	1 ppb = 1.88 µg/m ³
NO	1 ppb = 1.25 µg/m ³
O ₃	1 ppb = 2.00 µg/m ³
CO	1 ppb = 1.145 µg/m ³
Benzene	1 ppb = 3.19 µg/m ³

Results for AIS: SO₂ 0.02 mg/m³ , NO₂ 0.02 mg/m³ ,NO 0.02 mg/m³ , O₃ 0.02 mg/m³ ,CO 0.02 mg/m³ , Benzene 0.02 mg/m³ asf