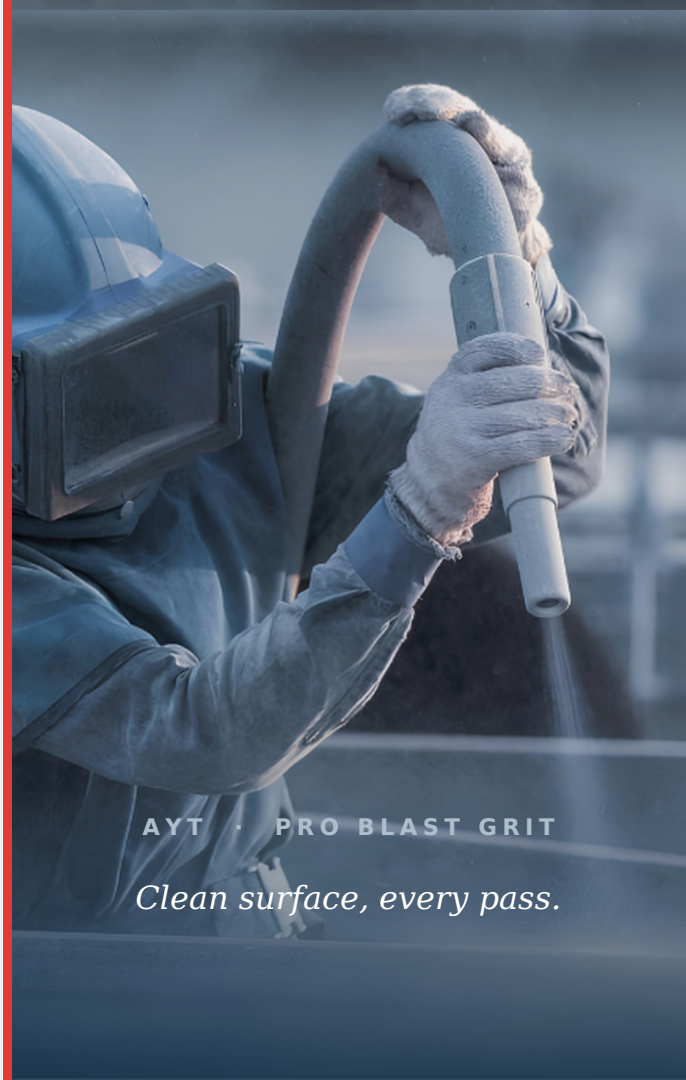
AYT
INDUSTRIAL

AYT Pro Blast Grit



AYT Pro Blast Grit — Product Data Sheet

BUILT FOR SURFACE PREPARATION

PRODUCT DESCRIPTION

AYT PRO BLAST GRIT is a high-performance, non-silica mineral abrasive produced from processed metallurgical slag. The product is engineered for abrasive blast cleaning of steel, concrete and industrial surfaces, providing efficient removal of rust, mill scale, old coatings and contaminants while generating an appropriate surface profile for coating adhesion. The material contains no detectable crystalline quartz by XRD analysis, making it a safer alternative to traditional silica sand abrasives.

TYPICAL APPLICATIONS

- Steel surface preparation
- Oil & gas facilities
- Structural steel fabrication
- Concrete surface cleaning
- Shipyards & marine maintenance
- Storage tanks & pipelines
- Bridge maintenance
- Industrial coating removal

PHYSICAL PROPERTIES

Mohs' Hardness	Bulk Density	pH	Chloride	SO_3	Organic Matter
7	1434 kg/m³	8.5	0.007 %	0.1 %	0 %
Scratch hardness	Dry rodded, avg	Aqueous extract	Cl content	Soluble	None detected

GRADATION — SIEVE ANALYSIS

Sieve (in / No.)	Opening (mm)	Passing (%)
No. 8	2.36	100
No. 10	2.00	100
No. 16	1.18	100
No. 20	0.85	99
No. 30	0.60	97
No. 40	0.425	22
No. 50	0.30	12
No. 80	0.18	9
No. 100	0.15	8
No. 200	0.075	7.2

Bulk density (dry rodded): 1440, 1429, 1433 kg/m³. Mohs' hardness per BS 6431-13:1986 / EN 101:1991 (ACES). Values are typical.

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CHEMICAL COMPOSITION, PACKAGING & ADVANTAGES

CHEMICAL COMPOSITION

SiO_2	Fe_2O_3	CaO	Al_2O_3	MgO
40.1 %	12.56 %	11.39 %	11.96 %	10.96 %
Silica (no free quartz)	Iron oxide	Calcium oxide	Alumina	Magnesia

FULL OXIDE ANALYSIS

Parameter	Result	Method
CaO	11.39	BS ISO 29581-2:2010
SiO_2	40.1	BS ISO 29581-2:2010
Al_2O_3	11.96	BS ISO 29581-2:2010
Fe_2O_3	12.56	BS ISO 29581-2:2010
MgO	10.96	BS ISO 29581-2:2010
SO_3	0.17	BS ISO 29581-2:2010

Parameter	Result	Method
K_2O	1.06	BS ISO 29581-2:2010
Na_2O	3.52	BS ISO 29581-2:2010
P_2O_5	0.85	BS ISO 29581-2:2010
TiO_2	3.04	BS ISO 29581-2:2010
MnO	0.32	BS ISO 29581-2:2010
Loss on Ignition	3.24	BS ISO 29581-2:2010

Chloride: 0.041% · Loss on Ignition method: EN196-2:2013

RECOMMENDED OPERATING CONDITIONS

Parameter	Recommended Range
Blast Pressure	6–8 bar (87–116 psi)
Nozzle Type	Venturi
Nozzle Size	6–10 mm
Surface Preparation	Sa 2, Sa 2½, Sa 3 (ISO 8501-1)
Recyclability	Single to limited reuse, depending on application

PACKAGING

- **25 kg bags**
  Standard handling
- **1,000 kg jumbo bags**
  Bulk site delivery
- **Bulk supply**
  Tanker / container

STORAGE

Store in a dry environment.
Protect from moisture contamination and direct exposure to weather.

TYPICAL PRODUCT ADVANTAGES

- ✓ Quartz-free mineral abrasive
- ✓ Environmentally preferable to silica sand
- ✓ Suitable for industrial & marine applications
- ✓ Low soluble salts
- ✓ Consistent particle grading
- ✓ Excellent surface preparation performance

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