

AltaSteel1090 Grinding Rod

AltaSteel Inc. is a major supplier of grinding media to the mining industry. AltaSteel 1090 grinding rods are produced in Edmonton, Alberta, Canada by AltaSteel. The AltaSteel1090 grade is described below:

CHEMICAL COMPOSITION:

The chemical composition requirements are according to ASTM A29 (see Table 1).

Table 1. **1090 Chemical Composition**

Element	Range (wt%)
C	0.85 – 0.98
Mn	0.60 – 0.90
P	0.040 max.
S	0.050 max.
Si	0.15 – 0.35

Note:Cu, Ni, Cr, and Mo are present in residual amounts only

HARDNESS: 1090 grade has a typical hardness of 30 HR_C.

PRODUCT SIZE TOLERANCE: Size tolerances per ASTM A29 (imperial units). Bar ends may deviate from the specified size tolerance due to hot shear cut.

PRODUCT LENGTH TOLERANCE: Length tolerance per ASTM A29 (imperial units).

STRAIGHTNESS: Straightness tolerance per ASTM A29 (imperial units).

INTERNAL CHARACTERISTICS: AltaSteel cannot guarantee internal defects such as segregation or cracks. Some segregation may be possible.

IDENTIFICATION:

All bundles to be tagged with a tag on one end of the bundle identifying the heat number and bundle number.

QUALITY CERTIFICATE:

A Mill Test Report (certificate) will be supplied identifying chemical composition.