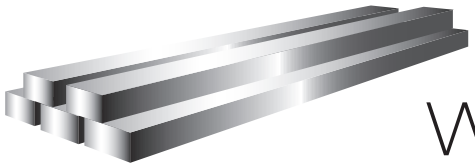
ARROW®
MATERIAL HANDLING PRODUCTS

FORK QUALITY

OUR FORKS

Arrow Material Handling Products provides premium quality forklift forks made of high strength boron-carbon alloy premium steel. Arrow forks are engineered to outperform economy forks and meet or exceed all ANSI/ITSDF and ISO standards. Saving a little up front is not worth risking a large potential cost of damage, injury or multiple replacements associated with economy forks.



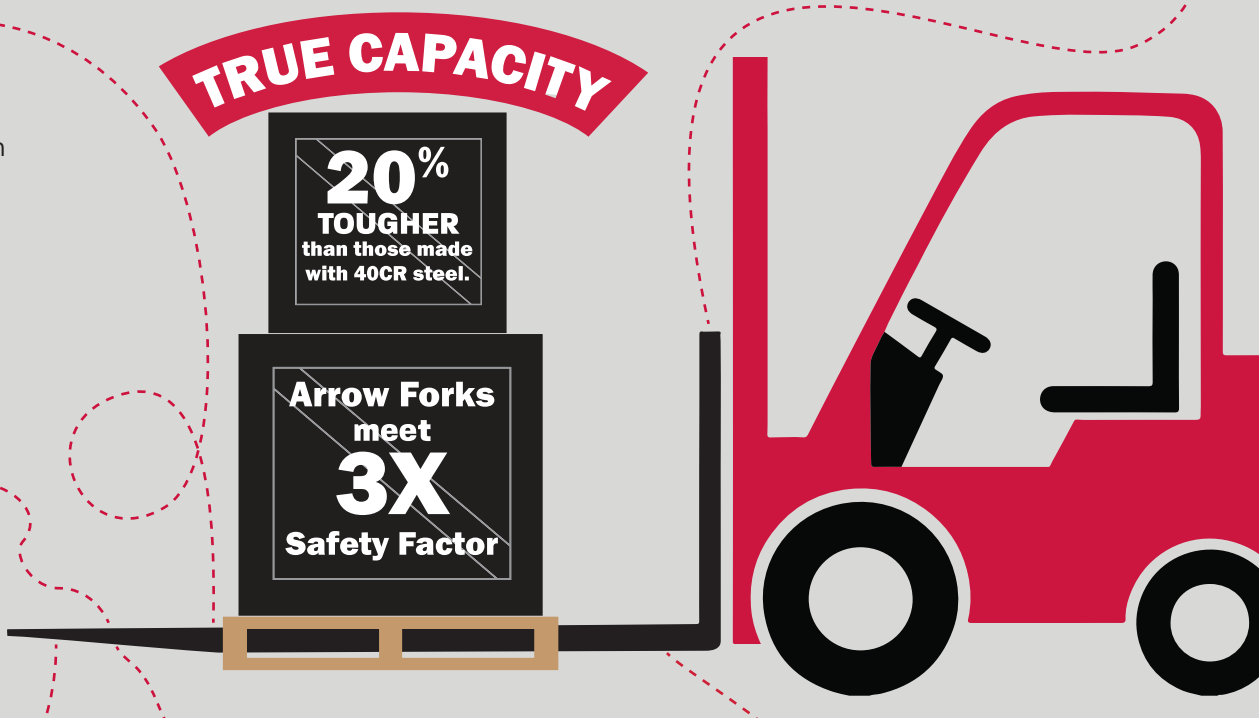
Why are ARROW forks better?

OUR STEEL

Arrow uses a modified 15B37H high-strength carbon-boron alloy steel in the construction of our premium quality forks.

STRENGTH

Forks are subject to a strength test in order to ensure impact resistance and rated capacity.



LOAD RATINGS

Forks are stamped with individual load capacity ratings. These stamped ratings should be clearly visible and not subject to wear.

HEAT TREATED

Many manufacturers only heat treat the heel of the forks. Our forks are fully immersed in industrial heat treatment ovens and quench tanks to ensure durability throughout the entire fork. This significantly reduces the chance of wear cracks and/or destruction set under heavy, or high impact loads, in all climate conditions.

OUR WARRANTY

Arrow offers a 3-year limited warranty on defects due to material or workmanship on all fork products.

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ARROW MATERIAL HANDLING PRODUCTS

ARROW MHP performs independent testing with outside agencies to demonstrate our competitive quality

FORK QUALITY

GOVERNING Standards

Arrow provides premium quality forklift forks engineered to meet or exceed all ANSI/ITSDF and ISO standardized tests. In the USA the Industrial Truck Association (ITA) and The Industrial Truck Standards Development Foundation (ITSDF) are the two governing organizations responsible for standardizing the manufacturing of fork tines. Participation in these organizations is high across the industry.

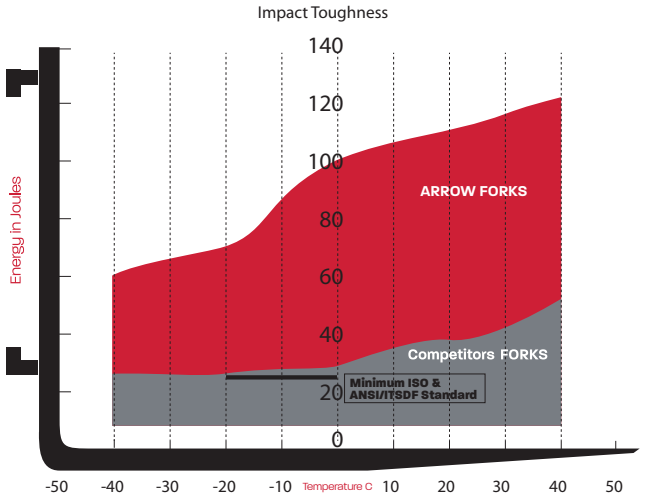
How to Measure QUALITY

Arrow performs independent testing to verify steel quality and performance for ourselves and our competitors. These tests measure yield, impact toughness, and fatigue.

How to Test STEEL QUALITY

All of our independent testing is performed by an accredited laboratory using industry standard procedures on calibrated machines in a controlled environment. A number of different types of tests are implemented.

ARROW FORKS are built to sustain more impact than the standards require, and far more than the barging fork from some competitors.



Test	Description	Expected results ITA/ITSDF
Uniaxial tension	a sample of the material is pulled apart to measure its strength. Several tests are performed at various locations along the blade, heel, and shank of the fork to measure the uniformity of the heat treatment.	120 -140ksi
Charpy impact	a sample is chilled and then broken to measure its toughness at low temperatures. This test should be performed to the requirements in ITSDF B56.11.4: 27J	27J minimum impact energy at -20C.
Surface hardness	a measure of the abrasion resistance as well as a proxy measurement of the material strength.	Expect Rockwell C values in the 30's.
Chemical analysis	used to identify the particular steel used.	15B37H is ideal Strongest for industrial application