

Grade Identification

Tired of referring to Google / datasheets / books for grades?

Powered by TotalMateria and the patented SmartComp, MetaLib Pro enables instant search and display of grades matching the OES' analysis report.

Grade Verification

Risking your quality by relying on inauthentic data with manual verification?

Analyse a sample with Metal Power OES and search for a grade from the database for instant comparison with colour codes and remarks on elements that are out of range.

Detailed Reporting

Unable to reflect the full grade adherence on reports sent to customers?

Generate a detailed OES analysis report including the relevant grade name, specifications with min/max tolerance values for each element and export it directly to your report.

Metalib PRO THE WORLD'S LARGEST AND MOST COMPREHENSIVE METALS GRADES' LIBRARY



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Grade identification and/or verification is a key requirement for most OES users. Whether it is in the business of buying or selling scrap, validating adherence to customer/internal norms or vendor adherence to specifications, grade identification is something that is often critical to both operations and Quality Control. To address this critical requirement, Metal Power now offers the world's largest and most comprehensive metals database, with more than 350,000+ grades, powered by Total Materia / Key to Metals AG.

Benefits

A tool to view the required grade's chemical, mechanical, magnetic and physical properties as well as the heat treatment, machineability and metallography data The ability to instantly see equivalent grades across standards; this allows users to check what grade the product matches in any required standard, including ASTM, EN, BIS, JIS, DIN, GOST and many more besides Lifetime free upgrades to the database to ensure that the library always reflects the latest and most up-to-date grades information!

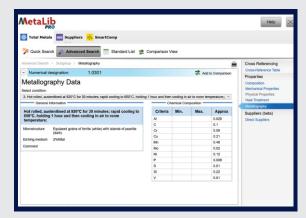
Sample Screenshots

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Machanical Proportion

Cross-Reference Table



Metallography Data

MATERIAL DE	SIGNATION			MATERIAL DE	SIGNATION		Add to Comparison
316L				30316L			- Has to comparison
А — в	asic Information						
Country/Stands United States / S	ard: SAE			Country/Standa United States / S	ird: AE		
Subgroup:			Bars, Wire, Shapes and	Subgroup:			Bars, Wire, Shapes anc v
SAE AMS-QQ-S Forgings		I, Corrosion Resistant,	Bars, Wire, Shapes and				Bars, Wire, Shapes and
Criteria	Min.	Max.	Approx	Criteria	Min.	Max.	Approx
с		0.03		C		0.03	
Cr	16	18		Cr	16	18	
Cu		1		Cu		1	
Mn		2		Mn		2	
Mo	2	3		Mo	2	3	
N		0.1		N		0.1	
Ni	10	14		NI	10	14	
P		0.045		P		0.045	
S		0.03		S		0.03	
Si		1		Si		1	
<u>л — м</u>	echanical Prope	rties		Yield stress, Re			
Vield stress B							
			A				
Yield stress, R ₁ T (°C)	Min.	Max.	Approx	T (°C)	Min.	Max.	Approx
T (°C)			Approx		Min. (cold); t > 12.7 mm 172	Max.	Approx

Comparison View

Key Features

- Over 15 million property records for 350,000+ grades from 74 countries/ standards
- Instant access to chemical composition, mechanical, physical, and magnetic properties as well as heat treatment, machineability and metallography data
- Constantly updated to reflect the latest national and international standards (such as AISI/ ASTM, DIN, EN, BS, JIS, GOST etc.)
- 1000's of producers' datasheets
- Cross-referencing between international standards
- Algorithms to find similar materials based on OES analysis



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